



# PBEF Monoclonal Antibody

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| Catalog No                  | YP-mAb-14106                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Isotype                     | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Reactivity                  | Human;Mouse;Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Applications                | WB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Gene Name                   | NAMPT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Immunogen                   | Synthesized peptide derived from human PBEF. at AA range: 411-460                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Specificity                 | PBEF Monoclonal Antibody detects endogenous levels of PBEF                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Formulation                 | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Source                      | Monoclonal, Mouse,IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Purification                | The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Dilution                    | WB 1:500-1:2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Concentration               | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Purity                      | ≥90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Storage Stability           | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Synonyms                    | Nampt;Visfatin;EC:2.4.2.12;NAmPRTase;PBEF;Nicotinamide phosphoribosyltransferase (NAmPRTase) (Nampt) (EC 2.4.2.12) (Pre-B-cell colony-enhancing factor 1) (Pre-B cell-enhancing factor) (Visfatin)                                                                                                                                                                                                                                                                                                                                   |
| Observed Band               | 54kD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Calculated Molecular Weight | 54kD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Cell Pathway                | Nucleus . Cytoplasm . Secreted . Under non-inflammatory conditions, visfatin predominantly exhibits a granular pattern within the nucleus. Secreted by endothelial cells upon IL-1beta stimulation. Abundantly secreted in milk, reaching 100-fold higher concentrations compared to maternal serum. .                                                                                                                                                                                                                               |
| Tissue Specificity          | Expressed in large amounts in bone marrow, liver tissue, and muscle. Also present in heart, placenta, lung, and kidney tissues.                                                                                                                                                                                                                                                                                                                                                                                                      |
| Function                    | catalytic activity:Nicotinamide D-ribonucleotide + diphosphate = nicotinamide + 5-phospho-alpha-D-ribose 1-diphosphate.,caution:Was originally (PubMed:8289818) thought to be a cytokine which acts on early B-lineage precursor cells, by enhancing the effect of IL-7 and SCF on pre-B-cell colony formation.,function:Catalyzes the condensation of nicotinamide with 5-phosphoribosyl-1-pyrophosphate to yield nicotinamide mononucleotide, an intermediate in the biosynthesis of NAD. It is the rate limiting component in the |



mammalian NAD biosynthesis pathway.,pathway:Cofactor biosynthesis; NAD(+) biosynthesis; nicotinamide ribonucleotide from 5-phospho-alpha-D-ribose 1-diphosphate and nicotinamide: step 1/1.,similarity:Belongs to the NAPRTase family.,tissue specificity:Expressed in large amounts in bone marrow, liver tissue, and muscle. Also present in heart, placenta, lung, and kidney tissues.,

#### Background

This gene encodes a protein that catalyzes the condensation of nicotinamide with 5-phosphoribosyl-1-pyrophosphate to yield nicotinamide mononucleotide, one step in the biosynthesis of nicotinamide adenine dinucleotide. The protein belongs to the nicotinic acid phosphoribosyltransferase (NAPRTase) family and is thought to be involved in many important biological processes, including metabolism, stress response and aging. This gene has a pseudogene on chromosome 10. [provided by RefSeq, Feb 2011],

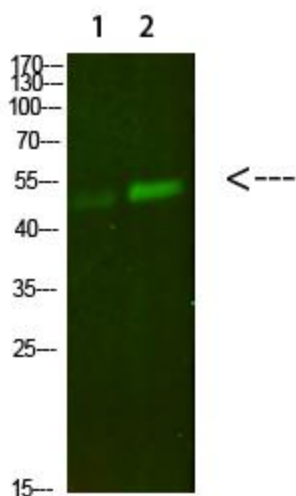
#### matters needing attention

Avoid repeated freezing and thawing!

#### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

### Products Images



Western Blot analysis of various cells using PBEF Monoclonal Antibody