



CD203c Monoclonal Antibody

Catalog No	YP-mAb-14004
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	ENPP3
Protein Name	Ectonucleotide pyrophosphatase/phosphodiesterase family member 3
Immunogen	The antiserum was produced against synthesized peptide derived from the Internal region of human ENPP3. AA range:281-330
Specificity	CD203c Monoclonal Antibody detects endogenous levels of CD203c protein.
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	ENPP3; PDNP3; Ectonucleotide pyrophosphatase/phosphodiesterase family member 3; E-NPP 3; Phosphodiesterase I beta; PD-Ibeta; Phosphodiesterase I/nucleotide pyrophosphatase 3; CD203c
Observed Band	100kD
Cell Pathway	Cell membrane ; Single-pass type II membrane protein . Apical cell membrane ; Single-pass type II membrane protein . Secreted . Detected at the cell surface of basophils (PubMed:11342463). Detected at the apical plasma membrane of bile duct cells (PubMed:15072822). Located to the apical surface in intestinal and kidney epithelial cells. Secreted in serum, and in lumen of epithelial cells. .
Tissue Specificity	Detected on bile ducts in liver, and in blood serum (at protein level) (PubMed:15072822). Detected in prostate and uterus (PubMed:9344668). Detected on basophils, but not neutrophils (PubMed:11342463).
Function	catalytic activity:A dinucleotide + H(2)O = 2 mononucleotides.,catalytic activity:Hydrolytically removes 5'-nucleotides successively from the 3'-hydroxy termini of 3'-hydroxy-terminated oligonucleotides.,cofactor:Binds 2 divalent metal cations per subunit.,enzyme regulation:At low concentrations of ATP, a phosphorylated active site intermediate is formed which inhibits further ATP hydrolysis.,function:Cleaves a variety of phosphodiester and phosphosulfate bonds including deoxynucleotides, nucleotide sugars, and NAD.,induction:Up-regulated by stimulation by allergen or by cross-linking with



IgE. The IgE-mediated activation is enhanced by tetradecanoyl phorbol acetate (TPA), a stimulator of the PKC pathway, and inhibited by the P13 kinase inhibitors, LY294002 and wortmannin. Up-regulated in invasive bile duct cancers.,PTM:It has been suggested that the active SMB domain may be permitted co

Background

The protein encoded by this gene belongs to a series of ectoenzymes that are involved in hydrolysis of extracellular nucleotides. These ectoenzymes possess ATPase and ATP pyrophosphatase activities and are type II transmembrane proteins. Expression of the related rat mRNA has been found in a subset of immature glial cells and in the alimentary tract. The corresponding rat protein has been detected in the pancreas, small intestine, colon, and liver. The human mRNA is expressed in glioma cells, prostate, and uterus. Expression of the human protein has been detected in uterus, basophils, and mast cells. Two transcript variants, one protein coding and the other non-protein coding, have been found for this gene. [provided by RefSeq, Oct 2015],

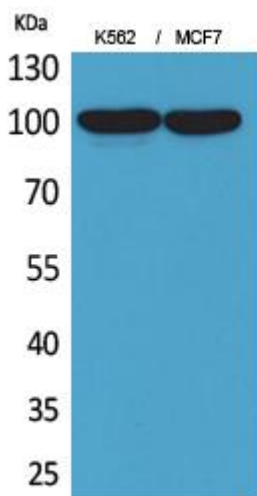
matters needing attention

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 CD203c Monoclonal Antibody