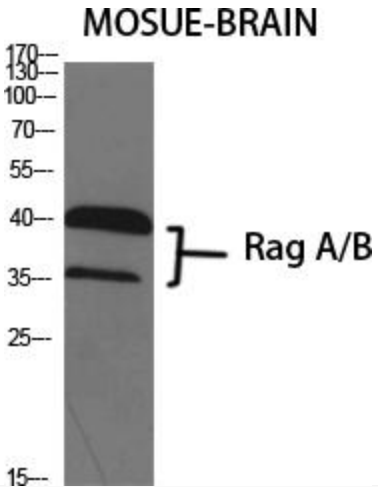
Rag A/B Monoclonal Antibody

Catalog No	YP-mAb-16218
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	RRAGA/RRAGB
Immunogen	The antiserum was produced against synthesized peptide derived from human RRAGA/B. AA range:264-313
Specificity	Rag A/B Monoclonal Antibody detects endogenous levels of Rag A/B 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	Adenovirus E3 14.7 kDa-interacting protein 1;FIP-1;Rag A;RagA;Ras-related GTP-binding protein A;RRAGA;RRAGA_HUMAN;FIP1;RAg B;RAGB;Ras related GTP binding protein A;Ras-related GTP binding protein B;Rag A/B; RRAGA/RRAGB;Ras-related GTP-binding protein A/B;RRAGB;Ras-related GTP-binding protein B
Observed Band	34kD
Calculated Molecular Weight	34kD
Cell Pathway	Cytoplasm . Nucleus . Lysosome . Predominantly cytoplasmic. May shuttle between the cytoplasm and nucleus, depending on the bound nucleotide state (PubMed:8995684, PubMed:9394008). Colocalizes in vivo with adenovirus E3-14.7K mainly to the cytoplasm especially near the nuclear membrane and in discrete foci on or near the plasma membrane (PubMed:8995684). .
Tissue Specificity	Ubiquitously expressed with highest levels of expression in skeletal muscle, heart, and brain.
Function	function:Involved in the RCC1/Ran-GTPase pathway. May play a direct role in a TNF-alpha signaling pathway leading to induction of cell death. May alternatively act as a cellular target for adenovirus E3-14.7K, an inhibitor of TNF-alpha functions, thereby affecting cell death. Has guanine nucleotide-binding activity

	but undetectable intrinsic GTPase activity.,similarity:Belongs to the GTR/RAG GTP-binding protein family.,subcellular location:Predominantly cytoplasmic. May shuttle between the cytoplasm and nucleus, depending on the bound nucleotide state. Colocalizes in vivo with adenovirus E3-14.7K mainly to the cytoplasm especially near the nuclear membrane and in discrete foci on or near the plasma membrane.,subunit:Can occur as a homodimer, or form a heterodimer with RRAGC or RRAGD in a sequence-independent manner. Binds GTP. The GTP-bound form of RRAGA interacts with NOL8. Interacts wi
Background	function:Involved in the RCC1/Ran-GTPase pathway. May play a direct role in a TNF-alpha signaling pathway leading to induction of cell death. May alternatively act as a cellular target for adenovirus E3-14.7K, an inhibitor of TNF-alpha functions, thereby affecting cell death. Has guanine nucleotide-binding activity but undetectable intrinsic GTPase activity.,similarity:Belongs to the GTR/RAG GTP-binding protein family.,subcellular location:Predominantly cytoplasmic. May shuttle between the cytoplasm and nucleus, depending on the bound nucleotide state. Colocalizes in vivo with adenovirus E3-14.7K mainly to the cytoplasm especially near the nuclear membrane and in discrete foci on or near the plasma membrane.,subunit:Can occur as a homodimer, or form a heterodimer with RRAGC or RRAGD in a sequence-independent manner. Binds GTP. The GTP-bound form of RRAGA interacts with NOL8. Interacts with adenovirus E3 14.7 kDa protein.,tissue specificity:Ubiquitously expressed with highest levels of expression in skeletal muscle, heart, and brain.,
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 Rag A/B Monoclonal Antibody