



ASAP2 Monoclonal Antibody

Catalog No	YP-mAb-04927
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB
Gene Name	ASAP2 DDEF2 KIAA0400
Protein Name	Arf-GAP with SH3 domain, ANK repeat and PH domain-containing protein 2 (Development and differentiation-enhancing factor 2) (Paxillin-associated protein with ARF GAP activity 3) (PAG3) (Pyk2 C-terminu
Immunogen	Synthesized peptide derived from human protein . at AA range: 640-720
Specificity	ASAP2 Monoclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, 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	
Observed Band	110kD
Cell Pathway	Cytoplasm. Golgi apparatus, Golgi stack membrane; Peripheral membrane protein. Cell membrane; Peripheral membrane protein. Colocalizes with F-actin and ARF6 in phagocytic cups.
Tissue Specificity	Detected in heart, brain, placenta, kidney, monocytes and pancreas.
Function	domain:The conserved Arg-464 in the Arf-GAP domain probably becomes part of the active site of bound small GTPases and is necessary for GTP hydrolysis.,function:Activates the small GTPases ARF1, ARF5 and ARF6. Regulates the formation of post-Golgi vesicles and modulates constitutive secretion. Modulates phagocytosis mediated by Fc gamma receptor and ARF6. Modulates PXN recruitment to focal contacts and cell migration.,induction:Up-regulated during monocyte maturation.,PTM:Phosphorylated on tyrosine residues by SRC and PTK2B.,similarity:Contains 1 Arf-GAP domain.,similarity:Contains 1 PH domain.,similarity:Contains 1 SH3 domain.,similarity:Contains 2 ANK repeats.,subcellular location:Colocalizes with F-actin and ARF6 in phagocytic cups.,subunit:Bounds PXN, ARF1, ARF5, ARF6, PTK2B and SRC.,tissue specificity:Detected in heart, brain, placenta, kidney, monocytes and pancreas.,



Background

This gene encodes a multidomain protein containing an N-terminal alpha-helical region with a coiled-coil motif, followed by a pleckstrin homology (PH) domain, an Arf-GAP domain, an ankyrin homology region, a proline-rich region, and a C-terminal Src homology 3 (SH3) domain. The protein localizes in the Golgi apparatus and at the plasma membrane, where it colocalizes with protein tyrosine kinase 2-beta (PYK2). The encoded protein forms a stable complex with PYK2 in vivo. This interaction appears to be mediated by binding of its SH3 domain to the C-terminal proline-rich domain of PYK2. The encoded protein is tyrosine phosphorylated by activated PYK2. It has catalytic activity for class I and II ArfGAPs in vitro, and can bind the class III Arf ARF6 without immediate GAP activity. The encoded protein is believed to function as an ARF GAP that controls ARF-mediated vesicle

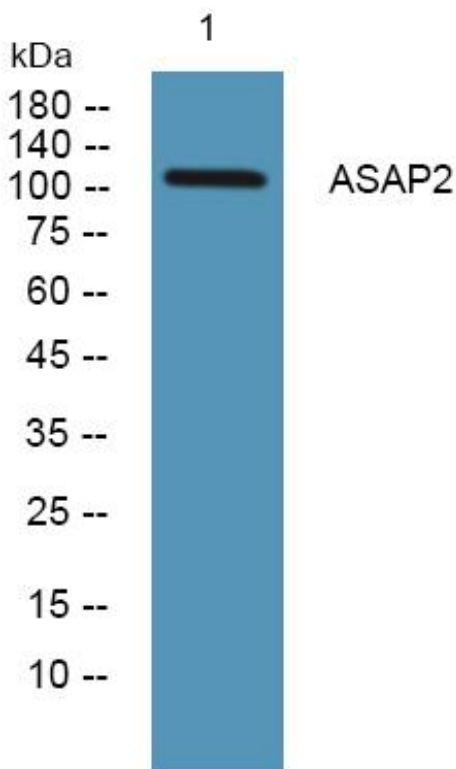
matters needing attention

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 ASAP2 Monoclonal Antibody