

Recombinant Human ASAP2, His-tagged

Cat. No. ASAP2-9911H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human ASAP2 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-357a.a.
Description	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 budding when recruited to Golgi membranes. In addition, it functions as a substrate and downstream target for PYK2 and SRC, a pathway that may be involved in the regulation of vesicular transport. Multiple transcript variants encoding different isoforms have been found for this gene.

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Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15% glycerol.
GENE INFORMATION	
Gene Name	ASAP2 ArfGAP with SH3 domain, ankyrin repeat and PH domain 2 [Homo sapiens]
Official Symbol	ASAP2
Synonyms	ASAP2; ArfGAP with SH3 domain, ankyrin repeat and PH domain 2; DDEF2, development and differentiation enhancing factor 2; arf-GAP with SH3 domain, ANK repeat and PH domain-containing protein 2; centaurin; beta 3; CENTB3; KIAA0400; PAP; SHAG1; centaurin, beta 3; PYK2 C terminus-associated protein; pyk2 C-terminus-associated protein; development and differentiation enhancing factor 2; development and differentiation-enhancing factor 2; paxillin-associated protein with ARF GAP activity 3; PAG3; AMAP2; DDEF2; Pap-alpha; FLJ42910;
Gene ID	8853
mRNA Refseq	NM_001135191
Protein Refseq	NP_001128663
MIM	603817
UniProt ID	O43150
Chromosome	2p24

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Location	
Pathway	Arf6 trafficking events, organism-specific biosystem; Endocytosis, organism-specific biosystem; Endocytosis, conserved biosystem; Fc gamma R-mediated phagocytosis, organism-specific biosystem; Fc gamma R-mediated phagocytosis, conserved biosystem;
Function	ARF GTPase activator activity; enzyme activator activity; metal ion binding; protein binding; zinc ion binding;

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