

Recombinant Human ASAP2, His-tagged

Cat. No. ASAP2-3618H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Arf-GAP with SH3 domain, ANK repeat and PH domain-containing protein 2 (ASAP2), partial
Species	Human
Source	E.Coli/Yeast
ProteinLength	961
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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Form	This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.
Purity	>90%
Notes	Small volumes of ASAP2 recombinant protein may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container's cap. Certain products may require to ship with dry ice.
Storage	Store at -20 degree C. For extended storage, store at -20 or -80 degree C.
Storage Buffer	PBS pH 7.4, 50% glycerol
Warning	This product is for research use only. Not for use in diagnostic or therapeutic procedures.

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;

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Gene ID	8853
mRNA Refseq	NM_001135191
Protein Refseq	NP_001128663
MIM	603817
UniProt ID	O43150
Chromosome Location	2p24
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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