

Recombinant Human ASAP2 Protein, GST-tagged

Cat. No. ASAP2-2436H Lot. No. (See product label)

SPECIFICATION

Product Overview	Human DDEF2 full-length ORF (NP_003878.1, 1 a.a. - 1006 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
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. [provided by RefSeq, Sep 2008]
Molecular Mass	138.1 kDa

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AA Sequence

MPDQISVSEFVAETHEDYKAPTASSFTTRTAQCRNTVAAIEEALDVDRMVLYKMKKS
 VKAINSSGLAHVENEEQYTQALEKFGGNCVCRDDPDLGSAFLKFSVFTKELTALFKN
 LIQNMNNIISFPLDSLKGDLDKGVKGDLLKKPFDKAWKDYETKITKIEKEKEHAKLHG
 MIRTEISGAIEAEMEKEKERRFFQLQMCEYLLKVNEIKIKKGVDLLQNLIKVFHAQCNEF
 QDGLKAVESLKPSIETLSTDHLTIKQAQDEERRQLIQLRDILKSALQVEQKEDSQIRQS
 TAYSLHQPGQNGKEHGTERNGSLYKKS DGIRKVVQKRKCSVKNGFLTISHGTANRPP
 AKLNLLTCQVKTNP EEKKCFDLISHDRTYHFQAEDEQECQIWMSVLQNSKEEALNN
 AFKGDDNTGENNIVQELTKEIISEVQRM TGNDVCCDCGAPDPTWLSTNLGILTCIECS
 GIHRELGVHYSRMQSLTDLVLTSELLLAKNIGNAGFNEIMECCLP AEDSVKPNPGS
 DMNARKDYITAKYIERRYARKKHADNAAKLHSLCEAVKTRDIFGLLQAYADGVDLTE
 KIPLANGHEPDETALHLAVRSVDRTSLHIVDFLVQNSGNLDKQTGKGSTALHYCCLT
 DNAECKLLLRGKASIEIANESGETPLDIARKLKEHCEELLTQALSGRFNSHVHVEY
 EWRLLEDLDESDDDMDEKLQPSPNRREDRPISFYQLGSNQLQSNVSLARDAANL
 AKEKQRAFMP SILQNETYGALLSGSPPPAQAAPSTTSAPPLPPRN VGKVQTASSA
 NTLWKTNSVSDGGSRQRSSSDPPAVHPPLPPLRVTSTNPLTPTPPPPVAKTPSVM
 EALSQPSKPAPPGISQIRPPPLPPQPPSRLPQKKPAPGADKSTPLTNKGQPRGPVDL
 SATEALGPLSNAMVLQPPAPMPRKSQATKLKPKRVKALYN CVADNPDELTFSEGDVI
 IVDGEEDQEWWIGHIDGDPGRKGAFVSVFVFIAD

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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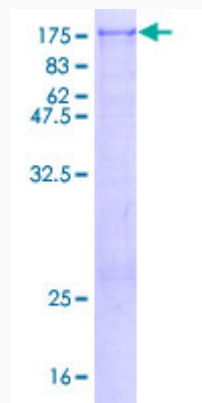
GENE INFORMATION

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

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Quality Control**Testing:**

12.5% SDS-PAGE Stained with Coomassie Blue.

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