

Recombinant Full Length Human ASAP2 Protein, GST-tagged

Cat. No. ASAP2-2445HF **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	In Vitro Cell Free System
ProteinLength	1006 amino acids
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]

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Molecular Mass	138.1 kDa
AA Sequence	MPDQISVSEFVAETHEDYKAPTASSFTTRTAQCRNTVAAIEEALDVDRMVLYKMKKS VKAINSSGLAHVENEEQYTQALEKFGGNCVCRDDPDLGSAFLKFSVFTKELTALFKN LIQNMNNIISFPLDSLKGDLDKGVKGDLLKPPDKAWKDYETKITKIEKEKEHAKLHG MIRTEISGAIEAEMEKEKERRFFQLQMCEYLLKVNEIKIKKGVDLLQNLIKYFHAQCNNF QDGLKAVESLKPSIETLSTDHLTIKQAQDEERRQLIQLRDILKSALQVEQKEDSQIRQS TAYSLHQPQGNKEHGTERNGSLYKKSDBGIRKVVQKRKCSVKNGFLTISHGTANRPP AKLNLLTCQVKTNPKEKKCFDLISHDRTYHFQAEDQECQIWMSVLQNSKEEALNN AFKGDDNTGENNIVQELTKEIIEVQRMTGNDVCCDCGAPDPTWLSTNLGILTCIECS GIHRELGVHYSRMQSLTDLVLTSELLAKNIGNAGFNEIMECCLPEDSVKPNPGS DMNARKDYITAKYIERRYARKKHADNAAKLHSLCEAVKTRDIFGLLQAYADGVDLTE KIPLANGHEPDETALHLAVRSVDRTSLHIVDFLVQNSGNLDKQTGKGSTALHYCCLT DNAECKLLLRGKASIEIANESGETPLDIARKLKEHCEELLTQALSGRFNSHVHVEY EWRLLEDLDESDDDMDEKLQPSPNRREDRPISFYQLGSNQLQSNVSLARDAANL AKEKQRAFMPISILQNETYGALLSGSPPPAQAAPSTTSAPPLPPRNVGKVQTASSA NTLWKTNSVSDGGSQRSSSDPPAVHPPLPLRVSTNPLTPTPPPPVAKTPSVM EALSQPSKPAPPGISQIRPPPLPPQPPSRLPQKKPAPGADKSTPLTNKGQPRGPVDL SATEALGPLSNAMVLQPPAPMPRKSQATKLKPKRVKALYNVADNPDELTFSEGDVI IVDGEEDQEWIGHIDGDPGRKGAFPVSFVHFIAD
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.

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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