

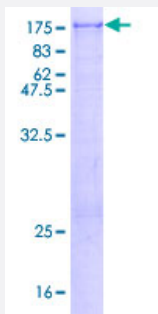
Full-Length

DDEF2 (Human) Recombinant Protein (P01)

Catalog # H00008853-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human DDEF2 full-length ORF (NP_003878.1, 1 a.a. - 1006 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MPDQISVSEFVAETHEDYKAPTASSFTTRTAQCRNTVAAIEEALDVDRMVLYKMKKSVKAINSSGL
AHVENEQYQTQALEKFGGNCVCRDDPDLGSAFLKFSVTKELTALFKNLIQNMNNISFPLDSLLK
GDLKGVKGDLLKKPFDKAWKDYETKITKIEKEKKEHAKLHGMIRTEISGAIEAEMEKEKERRFFQLQM
CEYLLKVNEIKKKGVDLLQNLIKYFHAQC�FFQDGLKAVESLKPSIETLSTDHLTIKQAQDEERRQLI
QLRDILKSALQVEQKEDSQIRQSTAYSLHQPQGNKEHGTERNGSLYKKS DGIRKVWQKRKCSVK
NGFLTISHGTANRPPAKLNLLTCQVKTNPEEKKCFDLISHDRTYHFQAEDQEQWMSVLQNSK
EEALNNAFKGDDNTGENNIVQELTKEIIEVQRM TGNDVCCDCGAPDPTWLSTNLGILTCIECSGIH
RELGVHYSRMQSLTLDVLGTSELLAKNIGNAGFNEIMECCLPAEDSVKPNPGSDMNARKDYITA
KYIERRYARKKHADNAAKLHSLCEAVKTRDIFGLLQAYADGVDLTEKIPLANGHEPDETALHLAVR
SVDRTSLHVD FLVQNSGNLDKQTGKGSTALHYCCLTDNAECLKLLLRGKASIEIANESGETPLDIA
KRLKHEHCEELLTQALSGRFNSHVHVEYEWRLLEDLDESDDDMDEKLQPSPNRREDRPISFYQ
LGSNQLQSNVSLARDAANLAKEKQRAFMP SILQNETYGALLSGSPPPAQAAPSTTSAPPLPP
RNVGKVQTASSANTLWKTNSVSDGGSRQRSSDPPAVHPPLPLRVSTNPLTPTPPPPVAKT
PSVMEALSQPSKPAPPGISQIRPPPLPPQPPSRLPQKKPAPGADKSTPLTNKGQPRGPVDLSAT
EALGPLSNAMVLQPPAPMPRK SQATKLKPKRVKALYN CVADNPDELTFSEGDVIMDGEEDQEW
WIGHIDGDPGRKGAFPVSFVHFIAD

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

138.1

Interspecies Antigen Sequence	Mouse (93)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

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

Gene Info — ASAP2

Entrez GeneID	8853
GeneBank Accession#	NM_003887.1
Protein Accession#	NP_003878.1
Gene Name	ASAP2
Gene Alias	AMAP2, CENTB3, DDEF2, FLJ42910, KIAA0400, PAG3, PAP, Pap-alpha, SHAG1
Gene Description	ArfGAP with SH3 domain, ankyrin repeat and PH domain 2
Omim ID	603817
Gene Ontology	Hyperlink

Gene Summary

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]

Other Designations

PYK2 C terminus-associated protein|centaurin, beta 3|development and differentiation enhancing factor 2

Pathway

- [Endocytosis](#)
- [Fc gamma R-mediated phagocytosis](#)