10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ASAP1 Rabbit pAb

Catalog # AP96549

Product Information

Application	WB
Primary Accession	Q9ULH1
Other Accession	Q9ULH1
Reactivity	Rat, Human, Mouse
Predicted	Rabbit, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	125498
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ASAP1
Epitope Specificity	154-190/1129
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 2 ANK repeats. Contains 1 Arf-GAP domain. Contains 1 PH domain. Contains 1 SH3 domain.
SUBUNIT	Homodimer. Interacts with SRC and CRK. Interacts with RAB11FIP3. Interacts with PTK2B/PYK2. Interacts with CTTN. Interacts (via SH3 domain) with APC.
Post-translational modifications	Phosphorylated on tyrosine residues by SRC
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes an ADP-ribosylation factor (ARF) GTPase-activating protein. The GTPase-activating activity is stimulated by phosphatidylinositol 4,5-biphosphate (PIP2), and is greater towards ARF1 and ARF5, and lesser for ARF6. This gene maybe involved in regulation of membrane trafficking and cytoskeleton remodeling. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]

Additional Information

Gene ID	50807
Other Names	AMAP1; CENTB4; DDEF1; PAG2; PAP; ZG14P; DEF-1; ASAP1_BOVIN; ASAP1; 130 kDa phosphatidylinositol 4, 5-bisphosphate-dependent ARF1 GTPase-activating protein; ADP-ribosylation factor-directed GTPase-activating protein 1 (ARF GTPase-activating protein 1); Development and differentiation-enhancing factor 1 (DEF-1 | Differentiation-enhancing factor 1); PIP2-dependent ARF1 GAP; ASAP1_HUMAN; KIAA1249; ASAP1_MOUSE; Shag1; ArfGAP with SH3 domain, ankyrin repeat and PH domain 1; development and differentiation enhancing factor 1; centaurin, beta 4

Dilution	WB=1:500-2000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	ASAP1
Synonyms	DDEF1, KIAA1249, PAG2 {ECO:0000303|PubMe
Function	Possesses phosphatidylinositol 4,5-bisphosphate-dependent GTPase-activating protein activity for ARF1 (ADP ribosylation factor 1) and ARF5 and a lesser activity towards ARF6. May coordinate membrane trafficking with cell growth or actin cytoskeleton remodeling by binding to both SRC and PIP2. May function as a signal transduction protein involved in the differentiation of fibroblasts into adipocytes and possibly other cell types. Part of the ciliary targeting complex containing Rab11, ASAP1, Rabin8/RAB3IP, RAB11FIP3 and ARF4, which direct preciliary vesicle trafficking to mother centriole and ciliogenesis initiation (PubMed:25673879).
Cellular Location	Cytoplasm. Membrane. Golgi apparatus. Golgi apparatus, trans- Golgi network. Note=Predominantly cytoplasmic. Partially membrane-associated. Localized to the Golgi, TGN and rhodopsin transport carriers (RTC) when interacting with RHO in photoreceptors (PubMed:25673879). Localized to RTC when interacting with RAB11A and RAB11FIP3 in photoreceptors (PubMed:25673879) {ECO:0000250, ECO:0000269|PubMed:25673879}

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.