Anti-ASAP1 (RABBIT) Antibody - 600-401-911

Code: 600-401-911 **Size:** 100 µg

Product Description: Anti-ASAP1 (RABBIT) Antibody - 600-401-911

Concentration: 0.95 mg/mL by UV absorbance at 280 nm

PhysicalState: Liquid (sterile filtered)

Label	Unconjugated
Host	Rabbit
Gene Name	ASAP1
Species Reactivity	human, chicken, bovine, dog, rat, chimpanzee
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Stabilizer	None
Preservative	0.01% (w/v) Sodium Azide
Storage Condition	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Synonyms	Development and differentiation enhancing factor 1 antibody, 130 kDa phosphatidylinositol 4 5 biphosphate dependent ARF1 GTPase activating protein antibody, ADP ribosylation factor directed GTPase activating protein 1 antibody, AMAP 1 antibody
Application Note	This affinity purified antibody has been tested for use in ELISA, IF microscopy and by western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 130 kDa in size corresponding to ASAP1 protein by western blotting in the appropriate cell lysate or extract. This antibody recognizes both phosphorylated and non-phosphorylated ASAP1 at amino acid Y782.
Background	This antibody is designed, produced, and validated as part of a collaboration between Rockland and the National Cancer Institute (NCI) and is suitable for Cancer, Immunology and Nuclear Signaling research. ASAP1 (also known as AMAP1, 130-kDa phosphatidylinositol 4,5-biphosphate-dependent ARF1 GTPase-activating protein, PIP2-dependent ARF1 GAP, ADP-ribosylation factor-directed GTPase-activating protein 1, ARF GTPase-activating protein 1, Development and differentiation-enhancing factor 1, Differentiation-enhancing factor 1, DEF-1) is an Arf-directed GTPase activating protein that is a substrate for the kinases Src and FAK and has been implicated in the regulation of membrane traffic, focal adhesions and invadopodia/podosomes. Phosphorylation of ASAP1 at tyrosine 782 has been found to affect enzymatic and some biological activities, including the function of invadopodia. ASAP1 is expressed in many tissues but is most abundant in the testis, brain, lung and spleen. A heightened expression was seen in the adipose tissue from obese (ob) and diabetic (db) animals. Multiple transcript variants have been reported for this protein.
Purity And Specificity	This affinity-purified antibody is directed against mouse ASAP1 protein. The product was affinity purified from monospecific antiserum by immunoaffinity purification. Reactivity occurs against both the phosphorylated and non-phosphorylated forms of the protein at residue Y782. A BLAST analysis was used to suggest cross reactivity with ASAP1 proteins from human, chicken, bovine, dog, rat and chimpanzee based on 100% homology with the immunizing sequence. Reactivity against homologues from other sources is not known.
Assay Dilutions	User Optimized
ELISA	1:2,000 - 1:10,000
WESTERN BLOT	1:500 - 1:2,000
OTHER ASSAYS	User Optimized
Expiration	Expiration date is one (1) year from date of opening.
Immunogen	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to amino acids 777-787 of mouse ASAP1 protein (see below).
General Reference	Brown MT, Andrade J, Radhakrishna H, Donaldson JG, Cooper JA, Randazzo PA. (1998) ASAP1, a phospholipid-dependent Arf GTPase-activating protein that associates with and is phosphorylated by Src. Mol. Cell Bio. 18: 7038-7051. Onodera Y, Hashimoto S, Hashimoto A, Morishige M, Mazaki Y, Yamada A, Ogawa E, Adachi M, Sakurai T, Manabe T, Wada H, Matsuura N, Sabe H. Expression of AMAP1, an ArfGAP, provides novel targets to inhibit breast cancer invasive activities. EMBO J. 24 : 963-973.

Liu,Y., Yerushalmi,G.M., Grigera,P.R. and Parsons,J.T. (2005) Mislocalization or reduced expression of Arf GTPase-activating protein ASAP1 inhibits cell spreading and migration by influencing Arf1 GTPase cycling. J. Biol. Chem. 280 (10), 8884-8892.

Related Products

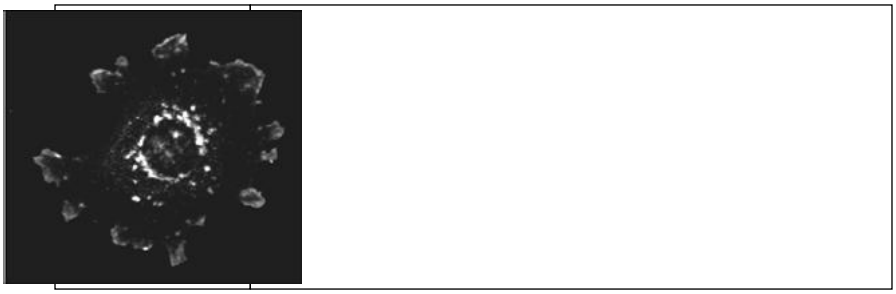
200-301-268	Anti-AKT pS473 (MOUSE) Monoclonal Antibody - 200-301-268
610-4302	Anti-MOUSE IgG (H&L) (RABBIT) Antibody Peroxidase Conjugated - 610-4302
611-1302	Anti-RABBIT IgG (H&L) (GOAT) Antibody Peroxidase Conjugated - 611-1302
B304	NORMAL GOAT SERUM (NGS) - B304

Related Links

UniProtKB	http://www.uniprot.org/uniprot/Q9QWY8
NCBI	http://www.ncbi.nlm.nih.gov/protein/65301464
NCBI - 65301464	http://www.ncbi.nlm.nih.gov/protein/65301464
UniProt - Q9QWY8	http://www.uniprot.org/uniprot/Q9QWY8
Gene ID - 13196	http://www.ncbi.nlm.nih.gov/gene/13196

Images

1 Immunofluorescent microscopy using Rockland's Affinity Purified anti-ASAP1 antibody shows detection of ASAP1present in mouse NIH3T3 cells transfected with activated Src. Specific staining is not present when antibody is pre-incubated with the immunizing peptide prior to reaction with cells. Personal Communication. Paul Randazzo, NIH, CCR, Bethesda, MD.



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