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Datasheet for 600-401-911

Asap1 Antibody

Overview

Description:	Anti-ASAP1 (RABBIT) Antibody - 600-401-911
Item No.:	600-401-911
Size:	100 µg
Applications:	ELISA, IF, WB
Reactivity:	Mouse
Host Species:	Rabbit

Product Details

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.
Synonyms:	rabbit anti-ASAP1 Antibody, ASAP-1, ASAP 1, 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
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	Asap1
Reactivity:	Mouse
Immunogen Type:	Conjugated Peptide
Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an internal region near amino acids 775-800 of mouse ASAP1 protein.
Purity/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.
Relevant Links:	• UniProtKB - Q9QWY8 • NCBI - 65301464 • GeneID - 13196

Application Details

Tested Applications:	ELISA, IF, WB
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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:2,000 - 1:10,000
IF:	User Optimized
WB:	1:500 - 1:2,000

Formulation

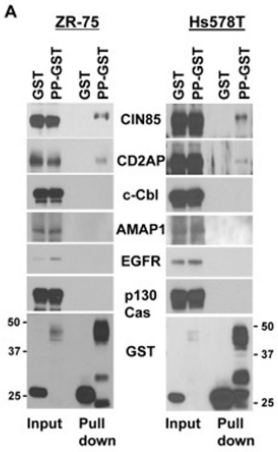
Physical State:	Liquid (sterile filtered)
Concentration:	0.95 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide

Stabilizer:	None

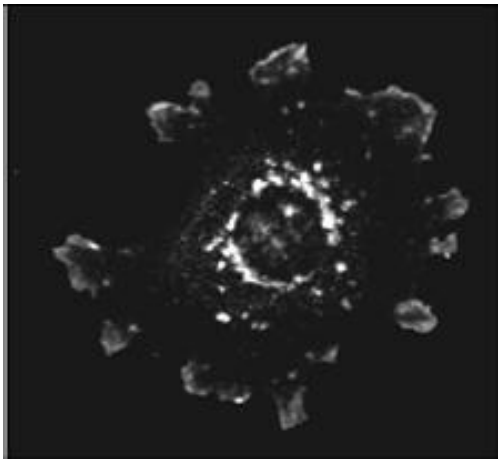
Shipping & Handling

Shipping Condition:	Dry Ice
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.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot
A) GST or LOX-PP-GST (PP-GST) was expressed in ZR-75 (left panel) or Hs578T (right panel) cells. GST and associated proteins were subjected to WB for CIN85 (for ZR-75 and Hs578T cells), CD2AP (H-290), c-Cbl, ASAP1/AMAP1 (p/n 600 -401-977), EGFR, p130Cas and GST. Input, 4%. Fig 2.
PMID: 24167568



Immunofluorescence Microscopy
Immunofluorescent microscopy using Rockland's Affinity Purified anti-ASAP1 antibody shows detection of ASAP1 present 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.

References

- Sato S et al. Inhibition of CIN85-mediated invasion by a novel SH3 domain binding motif in the lysyl oxidase propeptide. *PloS One* (2013)

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