

Anti-ASAP1 (RABBIT) Antibody
ASAP1 Antibody
Catalog # ASR5596**Specification**

Anti-ASAP1 (RABBIT) Antibody - Product Information

Host	Rabbit
Conjugate	Unconjugated
Target Species	Human
Reactivity	Human
Clonality	Polyclonal
Application	WB, E, I, LCI
Application Note	Anti-ASAP1 Antibody has been tested for use in ELISA and Western Blot. Expect a band approximately ~125kDa using positive control lysates over-expressing ASAP1, or other specific lysates or tissues. Although not tested, this antibody could be useful in Immunofluorescence or Immunohistochemistry. Specific conditions for reactivity should be optimized by the end user.
Physical State	Liquid (sterile filtered)
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Immunogen	Anti-ASAP1 affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to the c-terminus region of human ASAP1 protein.
Preservative	0.01% (w/v) Sodium Azide

Anti-ASAP1 (RABBIT) Antibody - Additional Information**Gene ID** 50807**Other Names**
50807**Purity**

This affinity purified antibody is directed against human ASAP1 protein. The product was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest reactivity to human 100%, bovine 93%, and rat and mouse 87% homology for the immunogen sequence. Cross-reactivity from other sources has not been determined.

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.

Precautions Note

This product is for research use only and is not intended for therapeutic or diagnostic applications.

Anti-ASAP1 (RABBIT) Antibody - 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).

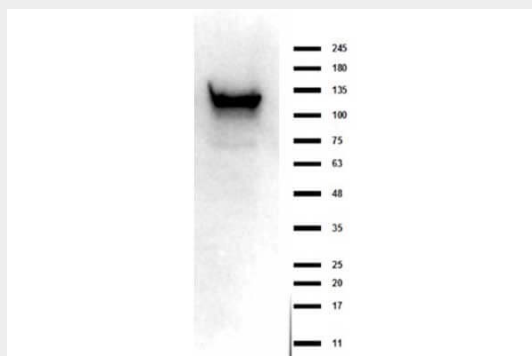
Cellular Location

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}

Anti-ASAP1 (RABBIT) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-ASAP1 (RABBIT) Antibody - Images

Western Blot of Rabbit anti-ASAP1 antibody. Lane 1: ASAP1 transfected U118 lysate. Load: 35 µg per lane. Primary antibody: ASAP1 antibody at 1:1000 for overnight at 4°C. Secondary antibody: rabbit secondary HRP antibody (p/n 611-103-122) at 1:70,000 for 30 min at RT. Block: BlockOut (p/n MB-073) overnight at 4°C. Predicted/Observed size: 125 kda for ASAP1.

Anti-ASAP1 (RABBIT) Antibody - Background

This antibody is designed, produced, and validated as part of a collaboration between Rockland and the National Cancer Institute (NCI). ASAP1 (ArfGAP with SH3 Domain, Ankyrin Repeat and PH Domain 1) is a Protein Coding gene. 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 with cell growth or actin cytoskeleton remodeling by binding to both SRC and PIP2. ASAP1 may function as a signal transduction protein involved in the differentiation of fibroblasts into adipocytes and possibly other cell types (By similarity) and plays a role in ciliogenesis. Anti-ASAP1 is useful for researchers interested in GTPase activities and EGFR1 Signaling Pathway.