

Product datasheet

Anti-ASAP1 / DDEF1 antibody ab12423

Overview

Product name	Anti-ASAP1 / DDEF1 antibody
Description	Rabbit polyclonal to ASAP1 / DDEF1
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide conjugated to KLH, corresponding to amino acids 962-978 of Mouse Centaurin beta 4 (ASAP1). The peptide sequence is identical in mouse ASAP1a and ASAP1b isoforms.
Positive control	Rat brain and mouse brain extracts (Western blotting). Mouse NIH3T3 fibroblast cells (immunofluorescence).
General notes	Do not store in frost-free freezers.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 15mM Sodium Azide Constituents: 0.01M PBS, pH 7.4
Purity	IgG fraction
Purification notes	Whole antiserum is fractionated and then further purified by ion-exchange chromatography.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab12423** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		

Application	Abreviews	Notes
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ICC/IF

Application notes

IF: 1/2000, this is recommended on mouse NIH3T3 fibroblast cells.
 WB: 1/2000, recommended using rat brain and mouse brain extracts. The antibody detects a 130 kDa doublet band, staining is specifically inhibited with the immunizing peptide.

Not tested in other applications.
 Optimal dilutions/concentrations should be determined by the end user.

Target

Function

Possesses phosphatidylinositol 4,5-biphosphate-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 (By similarity). Plays a role in ciliogenesis.

Sequence similarities

Contains 2 ANK repeats.
 Contains 1 Arf-GAP domain.
 Contains 1 PH domain.
 Contains 1 SH3 domain.

Domain

The PH domain most probably contributes to the phosphoinositide-dependent regulation of ADP ribosylation factors.

Post-translational modifications

Phosphorylated on tyrosine residues by SRC.

Cellular localization

Cytoplasm. Membrane. Predominantly cytoplasmic (By similarity). Partially membrane-associated.

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