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Datasheet for 200-401-990

UPLC1/ASAP3 Antibody

Overview

Description:	Anti-UPLC1/ASAP3 (RABBIT) Antibody - 200-401-990
Item No.:	200-401-990
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Human
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. Anti-UPLC1 (up-regulated in liver cancer 1) / ASAP3 Antibody, also named DDEFL1 (development and differentiation-enhancing factor-like 1) or ASAP3, is a member of the AZAP family of proteins. These proteins catalyze the hydrolysis of GTP bound to ADP-ribosylation factor (Arf) proteins, thereby causing Arf inactivation. For this reason, the ASAPs are generally called ArfGAPs. The activity of ArfGAPs is dependent on the presence of phosphoinositides and is implicated in cellular processes such as membrane trafficking and remodeling of the actin cytoskeleton. ASAP3 has been found to be up-regulated in 80% of the hepatocellular carcinomas examined. Initial biochemical characterization reveals that ASAP3 shows class-specific GAP activity on Arf proteins, preferring Arf5 over Arf1 and Arf6. ASAP3 antibody has beed developed through the NCI antibody collaboration program and is ideal for Cancer and Signal Transduction research.
Synonyms:	rabbit anti-UPLC1 Antibody, rabbit anti-ASAP3 Antibody, UPLC1/ASAP3 Antibody, Arf-GAP with SH3 domain, ANK repeat and PH domain-containing protein 3, FLJ20199 antibody, Gm140 antibody, Development and differentiation-enhancing factor-like 1, Protein up-regulated in liver cancer 1, DDEFL1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	ASAP3
Reactivity:	Human
Immunogen Type:	Recombinant Protein
Immunogen:	This antibody was prepared from whole rabbit serum produced by repeated immunizations with recombinant human UPLC1/ASAP3 protein.
Purity/Specificity:	This protein A purified antibody is directed against human UPLC1/ASAP3 protein. The product was purified from monospecific antiserum by protein A chromatography. A BLAST analysis was used to suggest cross-reactivity with UPLC1/ASAP3 protein from mouse and rat based on approximately 80% homology with the human protein. Reactivity against homologues from other sources is not known.
Relevant Links:	• NCBI - 19071867 • UniProtKB - Q8TDY4 • GeneID - 55616

Application Details

Tested Applications:	ELISA, WB
Application Note:	This protein A purified antibody has been tested for use in ELISA and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 100 kDa in size corresponding to UPLC1/ASAP3 protein by western blotting in the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:1,000 - 1:10,000
WB:	1:200 - 1:2,000

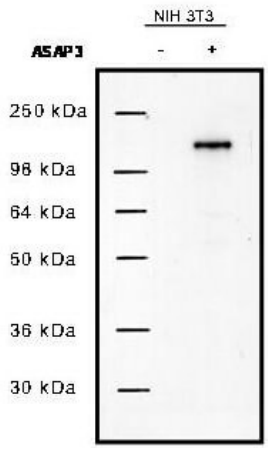
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.10 mg/mL
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 UPLC1 / ASAP3 Antibody 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
Western blot using Rockland's protein A purified anti-UPLC1/ASAP3 antibody shows detection of UPLC1/ASAP3 in NIH/3T3 cells over-expressing the protein. Cell extracts (5 ug) were resolved by electrophoresis and transferred to nitrocellulose. The membrane was probed with anti-UPLC1/ASAP3 at a 1:10,000 dilution. Personal Communication, Vi Luan HA, CCR-NCI, Bethesda, MD. 1

References

- Luo Y et al. Loss of ASAP3 destabilizes cytoskeletal protein ACTG1 to suppress cancer cell migration. *Mol Med Rep.* (2014)

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