

## Product datasheet for **TA319422**

### Asap1 Rabbit Polyclonal Antibody

#### Product data:

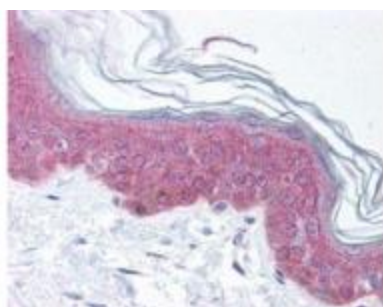
Product Type:	Primary Antibodies
Applications:	IF, IHC
Recommended Dilution:	ELISA: 1:4,000 - 1:16,000, WB: 1:500 - 1:2,000, IHC: 20-40 ug/ml
Reactivity:	Mouse, Human, Chicken, Bovine, Dog, Rat, Chimpanzee
Modifications:	Phospho-specific
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	This 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.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	ArfGAP with SH3 domain, ankyrin repeat and PH domain1
Database Link:	<a href="#">NP_034156</a> <a href="#">Entrez Gene 50807 Human</a> <a href="#">Entrez Gene 314961 Rat</a> <a href="#">Entrez Gene 482044 Dog</a> <a href="#">Entrez Gene 13196 Mouse</a> <a href="#">Q9QWY8</a>
Synonyms:	AMAP1; CENTB4; DDEF1; DEF-1; KIAA1249; PAG2; PAP; ZG14P



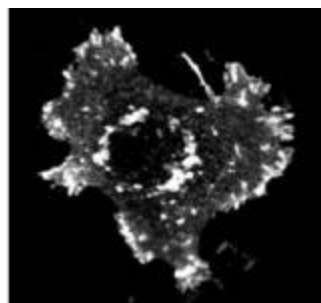
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**Note:** This antibody is suitable for Cancer, Immunology and Nuclear Signaling research. ASAP1 (also known as AMAP1, 130-kDa phosphatidylinositol 4,5-bisphosphate-dependent ARF1 GTPase-activating protein, PIP2-dependent ARF1 GAP, ADP-ribosylation 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.

### Product images:



Anti-ASAP1 pY782 antibody was used at 20 µg/ml to detect signal in a variety of tissues including multi-human, multi-brain and multi-cancer slides. This image shows moderate intracellular positive staining in epidermal keratinocytes in human skin at 40X. Tissue was formalin-fixed and paraffin embedded. The image shows localization of the antibody as the precipitated red signal, with a hematoxylin purple nuclear counterstain. Personal Communication, Tina Roush, LifeSpanBiosciences, Seattle, WA.



Immunofluorescent microscopy using Affinity Purified anti-ASAP1 pY782 antibody shows detection of phosphorylated 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.