



Rabbit Anti-PAG3/ASAP2 antibody

SL21004R

Product Name:	PAG3/ASAP2
Chinese Name:	发育和分化增强因子PAG3抗体
Alias:	AMAP 2; AMAP2; ANK repeat and PH domain-containing protein 2; Arf-GAP with SH3 domain; ASAP2; ASAP2_HUMAN; centaurin, beta 3; CENTB3; DDEF 2; DDEF2; Development and differentiation enhancing factor 2; Development and differentiation-enhancing factor 2; FLJ42910; KIAA0400; PAG 3; PAG3; Pap alpha; PAX; Paxillin associated protein with ARFGAP activity 3; Paxillin-associated protein with ARF GAP activity 3; Pyk2 C terminus associated protein; Pyk2 C-terminus-associated protein; SHAG 1; SHAG1.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Zebrafish,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	112kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human PAG3:351-450/1006
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	This gene encodes a multidomain protein containing an N-terminal alpha-helical region

with a coiled-coil motif, followed by a pleckstrin homology (PH) domain, an Arf-GAP domain, an ankyrin homology region, a proline-rich region, and a C-terminal Src homology 3 (SH3) domain. The protein localizes in the Golgi apparatus and at the plasma membrane, where it colocalizes with protein tyrosine kinase 2-beta (PYK2). The encoded protein forms a stable complex with PYK2 in vivo. This interaction appears to be mediated by binding of its SH3 domain to the C-terminal proline-rich domain of PYK2. The encoded protein is tyrosine phosphorylated by activated PYK2. It has catalytic activity for class I and II ArfGAPs in vitro, and can bind the class III Arf ARF6 without immediate GAP activity. The encoded protein is believed to function as an ARF GAP that controls ARF-mediated vesicle budding when recruited to Golgi membranes. In addition, it functions as a substrate and downstream target for PYK2 and SRC, a pathway that may be involved in the regulation of vesicular transport. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2008]

Function:

Activates the small GTPases ARF1, ARF5 and ARF6. Regulates the formation of post-Golgi vesicles and modulates constitutive secretion. Modulates phagocytosis mediated by Fc gamma receptor and ARF6. Modulates PXN recruitment to focal contacts and cell migration.

Subcellular Location:

Cytoplasm. Golgi apparatus > Golgi stack membrane. Cell membrane. Colocalizes with F-actin and ARF6 in phagocytic cups.

Tissue Specificity:

Detected in heart, brain, placenta, kidney, monocytes and pancreas.

Post-translational modifications:

Phosphorylated on tyrosine residues by SRC and PTK2B.

Similarity:

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

SWISS:

O43150

Gene ID:

8853

Database links:

[Entrez Gene: 8853](#) Human

[Entrez Gene: 211914](#) Mouse

[Omim: 603817](#) Human

[SwissProt: O43150](#) Human

[SwissProt: Q7SIG6](#) Mouse

[Unigene: 555902](#) Human

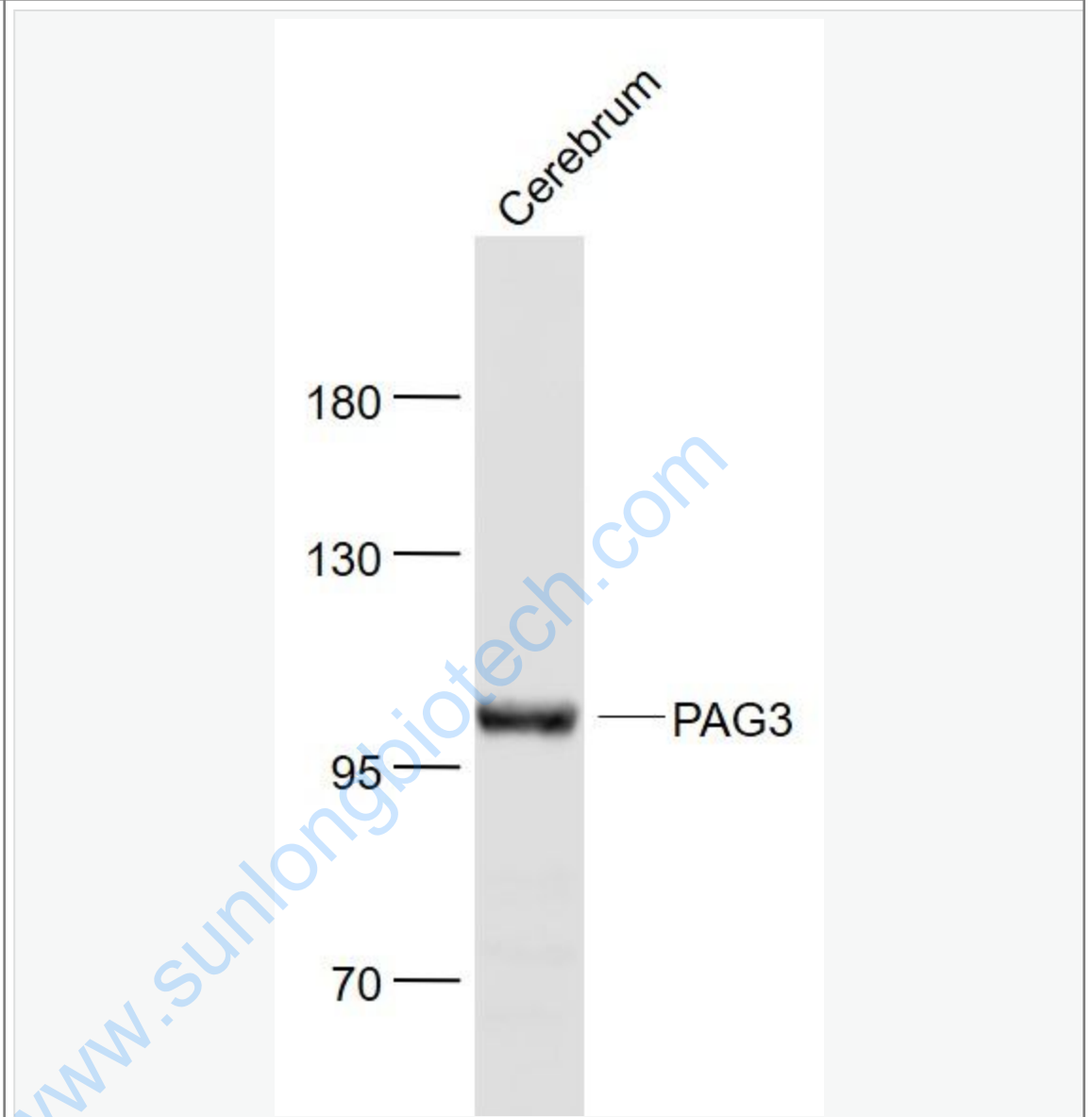
[Unigene: 358946](#) Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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Picture:



Sample:

Cerebrum (Mouse) Lysate at 40 ug

Primary: Anti- PAG3/ASAP2 (SL21004R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 112 kD

Observed band size: 110 kD

