

#4832 Store at -20C

APS Antibody

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IHC-P	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 90 to 95	Source/Isotype: Rabbit	UniProt ID: #O14492	Entrez-Gene Id: 10603
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Product Usage Information**Application**

Western Blotting
Immunohistochemistry (Paraffin)

Dilution

1:1000
1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

APS Antibody detects endogenous levels of total APS. This antibody does not cross-react with other adaptor/docking proteins.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino-terminus of human APS. Antibodies are purified by protein A and peptide affinity chromatography.

Background

APS is an SH2 and PH domain-containing adaptor protein closely related to Lnk and SH2-B (1). APS was identified as a substrate for many receptor tyrosine kinases including TrkA, insulin receptor, c-Kit and PDGF receptor (2). Tyrosine phosphorylation of APS provides docking sites for downstream signaling components, mediating diverse signaling pathways. APS plays quite different roles in RTK signaling. Overexpression of APS has been shown to inhibit PDGF-induced mitogenicity, which may result from APS/c-Cbl-mediated PDGF receptor degradation (3). However, APS promotes enhanced mitogenicity in response to insulin stimulation (4). The striking difference in APS-mediated signaling between the different RTKs could lie in the mode of interaction with the respective receptor.

Background References

1. Liu, J. et al. (2002) *Mol. Cell. Biol.* 22, 3599-3609.
2. Qian, X. and Ginty, D. (2001) *Mol. Cell. Biol.* 21, 1613-1620.
3. Wollberg, P. et al. (2003) *Biochem. J.* 370, 1033-1038.
4. Ahmed, Z. and Pillay, T.S. (2001) *Biochem. Soc. Trans.* 29, 529-534.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IHC-P:** Immunohistochemistry (Paraffin)

Cross-Reactivity Key

H: Human **M:** Mouse

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