

#4832 Store at -20°C

APS Antibody



Cell Signaling
TECHNOLOGY®

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB, IHC-P	H M	Endogenous	90 to 95	Rabbit	#O14492	10603

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) <i>Mol. Cell. Biol.</i> 22, 3599-3609. 2. Qian, X. and Ginty, D. (2001) <i>Mol. Cell. Biol.</i> 21, 1613-1620. 3. Wollberg, P. et al. (2003) <i>Biochem. J.</i> 370, 1033-1038. 4. Ahmed, Z. and Pillay, T.S. (2001) <i>Biochem. Soc. Trans.</i> 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	WB: Western Blotting IHC-P: Immunohistochemistry (Paraffin)
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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