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Homer1 Antibody



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Applications: WB	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 46	Source: Rabbit	UniProt ID: #Q86YM7	Entrez-Gene Id: 9456	
Product Usage Information	Ар	plication		Dilution			
	We	stern Blotting			1:1000		
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at $-$ 20°C. Do not aliquot the antibody.					
Specificity / Sensitiv	Homer1 Antibody detects endogenous levels of total Homer1 protein. This antibody may also detect isoform Homer1c.						
Source / Purification	resid	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu130 of human Homer1 protein. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	coile bind inos coile prot isofo	Homer1, Homer2 and Homer3 are scaffolding proteins, composed of an EVH protein—binding domain, a coiled-coil domain and a leucine zipper domain. The EVH domain is a protein-protein binding module that binds to the proline-rich motifs PPXXF, PPXF, and LPSSP of G protein—coupled receptors (GPCRs), inositol 1,4,5-triphosphate (IP3) receptors (IP3Rs), ryanodine receptors, and TRP channels (1-2). The coiled-coil and the leucine zipper domains cause multimerization of Homers and assemble signaling proteins complexes. The Homer1 gene encodes a short isoform (Homer1a, aa 1-186) and two long isoforms (Homer1b, aa 1-354; Homer1c, aa 1-366). Homer1a lacks the coiled-coil domain and leucine zipper, antagonizing multimerization of Homers and thus disassembling signaling proteins complexes (3).					
Background Referer	2. Yı	 Fagni, L. et al. (2002) Sci STKE 2002, re8. Yuan, J.P. et al. (2003) Cell 114, 777-89. Xiao, B. et al. (2000) Curr Opin Neurobiol 10, 370-4. 					

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

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

 $\textbf{GP:} \ \textbf{Guinea Pig Rab:} \ \textbf{rabbit AII:} \ \textbf{all species expected}$

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