

Store at
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#68083**HPC4-Tag Antibody**

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

Applications: W, IP	Reactivity: All	Sensitivity: Transfected Only	Source/Isotype: Rabbit
Product Usage Information		Application Western Blotting Immunoprecipitation	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	HPC4-Tag Antibody recognizes recombinant proteins containing the HPC4-tag. This antibody recognizes the HPC4-tag fused to either the amino or carboxy terminus of targeted proteins in transfected cells.		
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues of the HPC4-tag.		
Background	Epitope tags are useful for the labeling and detection of proteins using immunoblotting, immunoprecipitation, and immunostaining techniques. Because of their small size, they are unlikely to affect the tagged protein's biochemical properties. HPC4-tag is a 12 amino acid sequence derived from protein C, which is a vitamin K-dependent plasma zymogen. Protein C is activated by proteolytic cleavage of the thrombin-thrombomodulin complex to form an anticoagulant enzyme (1,2). This peptide can be expressed and detected with the protein of interest as an amino-terminal or carboxy-terminal fusion (3,4).		
Background References	<ol style="list-style-type: none"> 1. Kurosawa, S. (1989) <i>Nihon Ketsueki Gakkai Zasshi</i> 52, 1343-9. 2. Rezaie, A.R. and Esmon, C.T. (1992) <i>J Biol Chem</i> 267, 26104-9. 3. Tie, J.K. et al. (2005) <i>J Biol Chem</i> 280, 16410-6. 4. Chu, P.H. et al. (2006) <i>Proc Natl Acad Sci U S A</i> 103, 19308-13. 		

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 IP: Immunoprecipitation
Cross-Reactivity Key	All: All Species Expected
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