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#3211

Phospho-Etk (Tyr40) Antibody

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

Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 76	Source/Isotype: Rabbit	UniProt ID: #P51813	Entrez-Gene Id: 660
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Product Usage Information	Application	Dilution
	Western Blotting	1:1000
	Immunoprecipitation	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	Phospho-Etk (Tyr40) Antibody detects endogenous levels of Etk only when phosphorylated at Tyr40. This antibody may cross react with activated EGF Receptor. This antibody cross reacts with other family members including ITK, BTK and Tec when overexpressed.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr40 of human Etk. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	Etk, also known as BMX, is a member of the Bruton's tyrosine kinase (Btk) family (1). It is expressed in a variety of hematopoietic, epithelial and endothelial cells. Etk, like other Btk family members, contains a pleckstrin homology (PH) domain and Src homology SH3 and SH2 domains. It participates in multiple signal transduction pathways (2). Phosphorylation of Tyr566 by Src kinase is required for activation of Etk in vivo (3). In endothelial and epithelial cells, Etk is regulated by FAK through phosphorylation at Tyr40 (4).	
Background References	<ol style="list-style-type: none"> 1. Tamagnone, L. et al. (1994) <i>Oncogene</i> 9, 3683-8. 2. Qiu, Y. and Kung, H.J. (2000) <i>Oncogene</i> 19, 5651-61. 3. Tsai, Y.T. et al. (2000) <i>Mol Cell Biol</i> 20, 2043-54. 4. Chen, R. et al. (2001) <i>Nat Cell Biol</i> 3, 439-44. 	

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	H: Human
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