## Mer (D21F11) XP® Rabbit mAb



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Applications:ReactiveW, IP, IF-IC, FC-FPH	<b>rity:</b> Sensitivity: Endogenous	<b>MW (kDa):</b> 210	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q12866	Entrez-Gene Id: 10461	
Product Usage Information	Application Western Blotting Immunoprecipitation Immunofluorescence Flow Cytometry (Fixe	(Immunocytochem	istry)		<b>Dilution</b> 1:1000 1:100 1:400 1:400	
Storage	0.02% sodium azide.	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
a 161 1. 16 1.1 1.	product #55418.					
Specificity/Sensitivity		Rabbit mAb detects endogenous levels of total Mer protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding His925 of human Mer protein.				
Background	characterized by a co common ligand, GAS of 170-210 kDa due to activated by dimeriza interaction mediated Mer include PI3 kinas regulation and carry phagocytosis, and su engulfment, and sup that overexpression of	Mer tyrosine kinase belongs to a receptor tyrosine kinase family with Axl and Tyro3. This family is characterized by a common NCAM (neural adhesion molecule)-related extracellular domain and a common ligand, GAS6 (growth arrest specific protein 6). Mer protein has an apparent molecular weight of 170-210 kDa due to different glycosylation patterns generated in different cell types. Mer can be activated by dimerization and autophosphorylation through ligand binding or homophilic cell-cell interaction mediated by its NCAM-like motif (1). The downstream signaling components of activated Mer include PI3 kinase, PLCy, and MAP kinase (2). Family members are prone to transcriptional regulation and carry out diverse functions, including the regulation of cell adhesion, migration, phagocytosis, and survival (3). Mer regulates macrophage activation, promotes apoptotic cell engulfment, and supports platelet aggregation and clot stability <i>in vivo</i> (4). Investigators have found that overexpression of Mer may play a cooperative role in leukemogenesis and may be an effective target for biologically based leukemia/lymphoma therapy (5).				
Background References       1. Ling, L. et al. (1996) J Biol Chem 271, 18355-62.         2. Ling, L. and Kung, H.J. (1995) Mol Cell Biol 15, 6582-92.         3. Hafizi, S. and Dahlbäck, B. (2006) Cytokine Growth Factor Rev 17, 295-304.         4. Sather, S. et al. (2007) Blood 109, 1026-33.         5. Keating, A.K. et al. (2006) Oncogene 25, 6092-100.						
Species Reactivity	Species reactivity is d	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 TBS, 0.1% Tween $\circledR$ 20 at 4°C with gentle shaking, overnight.				
Applications Key	3	W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)				
Cross-Reactivity Key	<b>H:</b> Human					
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