Store at -200

Mer (348E6) Mouse mAb



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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

Applications: I	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 210	Source/Isotype: Mouse IgG1	UniProt ID: #Q12866	Entrez-Gene Id 10461	
Product Usage	Ар	olication			Dilution		
nformation	We	stern Blotting			1:1000		
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20° C. Do not aliquot the antibody.					
Specificity / Sensitiv		Mer (348E6) Mouse mAb detects endogenous levels of Mer proteins. It does not cross-react with other receptor tyrosine kinase family members.					
Source / Purification	•	Monoclonal antibody is produced by immunizing animals with recombinant human Mer extracellular domain produced in Sf21 cells.					
Background	char com 170- by d by it PLC func	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).					

- 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 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 nonfat dry milk, 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

GP: Guinea Pig Rab: rabbit All: all species expected

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