



Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

Store at -20C
#3551

Mer (D21F11) XP[®] Rabbit mAb (Sepharose Bead Conjugate)

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

Applications: IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 210	Source/Isotype: Rabbit IgG	UniProt ID: #Q12866	Entrez-Gene Id: 10461
----------------------------	-------------------------	-----------------------------------	-------------------------	--------------------------------------	-------------------------------	---------------------------------

Product Usage Information

Application

Immunoprecipitation

Dilution

1:20

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol. Store at -20°C. Do not aliquot the antibodies.

Specificity/Sensitivity

Mer (D21F11) XP[®] Rabbit mAb (Sepharose Bead Conjugate) 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.

Description

This Cell Signaling Technology antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated Sepharose beads. Mer (D21F11) XP[®] Rabbit mAb (Sepharose Bead Conjugate) is useful for the immunoprecipitation of Mer. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated Mer (D21F11) XP[®] Rabbit mAb #4319.

Background

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, PLCγ, 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 *in vivo* (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

- Ling, L. et al. (1996) *J Biol Chem* 271, 18355-62.
- Ling, L. and Kung, H.J. (1995) *Mol Cell Biol* 15, 6582-92.
- Hafizi, S. and Dahlbäck, B. (2006) *Cytokine Growth Factor Rev* 17, 295-304.
- Sather, S. et al. (2007) *Blood* 109, 1026-33.
- 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).

Applications Key

IP: Immunoprecipitation

Cross-Reactivity Key

H: Human

Trademarks and Patents

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

XP is a registered trademark of Cell Signaling Technology, Inc.

All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.

Limited Uses

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no

force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.