

FBXL10 (D3T8J) Rabbit mAb

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

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H	Transfected Only	180	Rabbit IgG	#Q8NHM5	84678

Product Usage Information**Application**

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

FBXL10 (D3T8J) Rabbit mAb recognizes transfected levels of total FBXL10 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the human FBXL10 protein.

Background

F-box and leucine-rich repeat protein 10 (FBXL10), also known as lysine-specific demethylase 2B (KDM2B) and JmjC domain-containing histone demethylation protein 1B (JHDM1B), is a lysine-specific histone demethylase protein that demethylates Lys4 and Lys36 of histone H3 (1,2). FBXL10 contains a zinc finger-CxxC5 DNA binding domain that binds to un-methylated CpG dinucleotides and has been shown to function as part of a non-canonical polycomb repressor complex (PRC1) that is associated with repression of developmentally regulated genes (3-5). In embryonic stem cells, FBXL10 is critical for targeting PRC1 to CpG islands and regulating gene expression during differentiation. In addition, FBXL10 is over-expressed in various cancers where it functions to induce cell proliferation and repress senescence through repression of the p15Ink4b gene locus (6-8). High expression of FBXL10 in pancreatic ductal adenocarcinoma is associated with metastasis, while high expression in acute myeloid leukemia is associated with increased proliferation and self-renewal of leukemic stem cells (6-8).

Background References

1. He, J. et al. (2008) *Nat Struct Mol Biol* 15, 1169-75.
2. Frescas, D. et al. (2007) *Nature* 450, 309-13.
3. Boulard, M. et al. (2015) *Nat Genet* 47, 479-85.
4. Wu, X. et al. (2013) *Mol Cell* 49, 1134-46.
5. Farcas, A.M. et al. (2012) *Elife* 1, e00205.
6. Tzatsos, A. et al. (2013) *J Clin Invest* 123, 727-39.
7. Nakamura, S. et al. (2013) *Mol Carcinog* 52, 57-69.
8. He, J. et al. (2011) *Blood* 117, 3869-80.

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

Cross-Reactivity Key

H: Human

Trademarks and Patents

Cell Signaling Technology is a 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.