

#44570 Store at -20C

FBXL10 (D3T8J) Rabbit mAb**Cell Signaling**
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	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**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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