

#75432 Store at -20C

BCL11A (D4E3P) Rabbit mAb



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, W-S, IP	H M	Endogenous	100-145	Rabbit IgG	#Q9H165	53335

Product Usage Information

Application

Western Blotting
Simple Western™
Immunoprecipitation

Dilution

1:1000
1:50 - 1:250
1:200

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

BCL11A (D4E3P) Rabbit mAb recognizes endogenous levels of total BCL11A protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val247 of human BCL11A protein.

Background

BCL11A is a zinc finger-containing transcriptional repressor that is important for normal hematopoiesis (1). Alternative splicing of the BCL11A transcript results in several isoforms of the protein (2). BCL11A is required for the early stages of B lineage commitment and mice lacking BCL11A fail to develop B cells (1). Mice deficient in BCL11A also fail to develop plasmacytoid dendritic cells (3). In addition, BCL11A regulates the switch from fetal to adult hemoglobin by repressing expression of fetal hemoglobin in adult erythroid cells (4). Since expression of fetal hemoglobin can decrease the severity of hemoglobin disorders in adults, BCL11A is a potential therapeutic target for these diseases (4). BCL11A was also recently identified as a component of the mammalian SWI/SNF complex (5). BCL11A is required for morphogenesis and terminal differentiation of dorsal spinal neurons (6).

Background References

1. Liu, P. et al. (2003) *Nat Immunol* 4, 525-32.
2. Liu, H. et al. (2006) *Mol Cancer* 5, 18.
3. Ippolito, G.C. et al. (2014) *Proc Natl Acad Sci U S A* 111, E998-1006.
4. Sankaran, V.G. et al. (2008) *Science* 322, 1839-42.
5. Kadoch, C. et al. (2013) *Nat Genet* 45, 592-601.
6. John, A. et al. (2012) *Development* 139, 1831-41.

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 **W-S:** Simple Western™ **IP:** Immunoprecipitation

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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