

Store at
-20°C

#75432

BCL11A (D4E3P) Rabbit mAb

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orders@cellsignal.comEntrez-Gene ID #53335
UniProt ID #Q9H165

New 11/16

For Research Use Only. Not For Use In Diagnostic Procedures.**Applications**
W, IP
Endogenous**Species Cross-Reactivity***
H, M**Molecular Wt.**
100-145 kDa**Isotype**
Rabbit IgG**

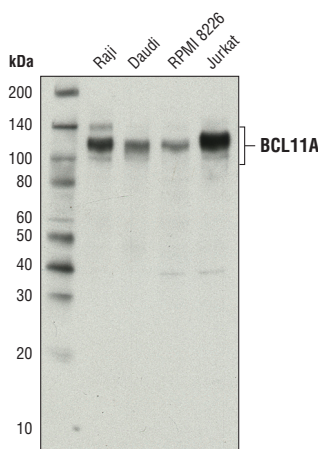
Background: BCL11A is a zinc finger-containing transcriptional repressor that is important for normal hematopoiesis (1). Alternative splicing of the BCL11A transcript results in several isoforms of the protein (2). BCL11A is required for the early stages of B lineage commitment and mice lacking BCL11A 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).

Specificity/Sensitivity: BCL11A (D4E3P) Rabbit mAb recognizes endogenous levels of total BCL11A protein.

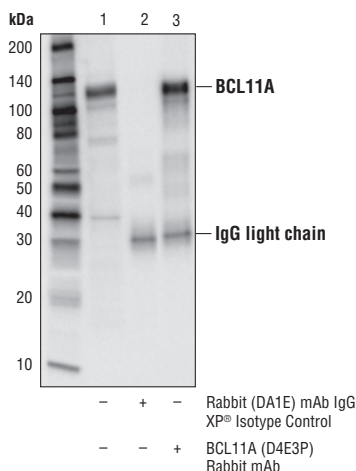
Source/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val247 of human BCL11A protein.

Background 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.



Western blot analysis of extracts from various cell lines using BCL11A (D4E3P) Rabbit mAb.



Immunoprecipitation of BCL11A from RPMI 8226 cell extracts. Lane 1 is 10% input, lane 2 is Rabbit (DA1E) mAb IgG XP® Isotype Control #3900, and lane 3 is BCL11A (D4E3P) Rabbit mAb. Western blot analysis was performed using BCL11A (D4E3P) Rabbit mAb.

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.

*Species cross-reactivity is determined by western blot.

**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:

Western blotting 1:1000
Immunoprecipitation 1:200

For product specific protocols and a complete listing of recommended companion products please see the product web page at www.cellsignal.com

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IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.

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Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide Species Cross-Reactivity: H—human M—mouse R—rat Hm—hamster Mk—monkey 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 All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.