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BACH2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10133B

Product Information

Application	WB, FC, E
Primary Accession	Q9BYV9
Other Accession	NP_001164265.1, NP_068585.1
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB21865
Calculated MW	92537
Antigen Region	815-841

Additional Information

Gene ID	60468
Other Names	Transcription regulator protein BACH2, BTB and CNC homolog 2, BACH2
Target/Specificity	This BACH2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 815-841 amino acids from the C-terminal region of human BACH2.
Dilution	WB~~1:2000 FC~~1:25 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	BACH2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	BACH2
Function	Transcriptional regulator that acts as a repressor or activator (By similarity). Binds to Maf recognition elements (MARE) (By similarity). Plays an important role in coordinating transcription activation and repression by MAFK (By similarity). Induces apoptosis in response to oxidative stress through

repression of the antiapoptotic factor HMOX1 (PubMed:17018862). Positively regulates the nuclear import of actin (By similarity). Is a key regulator of adaptive immunity, crucial for the maintenance of regulatory T-cell function and B-cell maturation (PubMed:28530713).

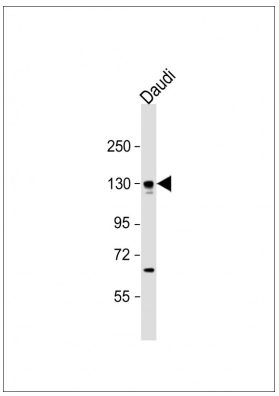
Cellular Location Cytoplasm. Nucleus {ECO:0000255|PROSITE- ProRule:PRU00978, ECO:0000269|PubMed:17018862, ECO:0000269|PubMed:28530713}. Note=Nucleocytoplasmic shuttling is controlled by phosphorylation.

Tissue Location B-cell specific.

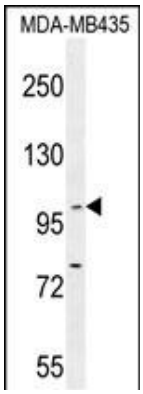
References

Hinks, A., et al. Ann. Rheum. Dis. (2010) In press :
Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Dubois, P.C., et al. Nat. Genet. 42(4):295-302(2010)
Pierce, B.L., et al. Hum. Hered. 69(3):193-201(2010)
Barrett, J.C., et al. Nat. Genet. 41(6):703-707(2009)

Images

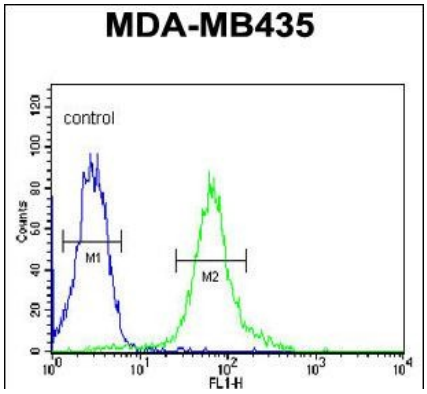


Anti-BACH2 Antibody (C-term) at 1:1000 dilution + Daudi whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 93 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



BACH2 Antibody (C-term) (Cat. #AP10133b) western blot analysis in MDA-MB435 cell line lysates (35ug/lane).This demonstrates the BACH2 antibody detected the BACH2 protein (arrow).

BACH2 Antibody (C-term) (Cat. #AP10133b) flow cytometric analysis of MDA-MB435 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Citations

- A genome-wide regulatory network identifies key transcription factors for memory CD8 T-cell development.