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Product datasheet for TA319354

Bach2 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	ELISA: 1:5000, WB: 1 ug/mL, IP: 1 ug/mL
Reactivity:	Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Anti-Bach2 antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to the n-terminus region of the Bach2 protein.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	BTB and CNC homology, basic leucine zipper transcription factor 2
Database Link:	NP_031547 Entrez Gene 12014 Mouse P97303
Synonyms:	OTTHUMP00000016868

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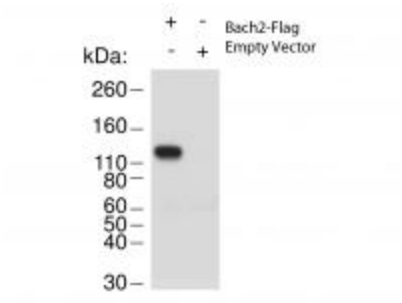
Note: During an immune response to infectious diseases and cancer, B-cells undergo activation in response to antigen, and differentiate either into short-lived plasma cells, whose numbers contract following withdrawal of the antigenic stimulus, or into memory B-cells. The formation of B-cell memory is the major goal of vaccination, since memory B-cells are able to produce antibodies specific to infections and cancer that can last for the lifetime of the host. Recently it has been shown that the formation of long-lived memory B-cells is dependent upon the transcription factor Bach2, since knockout mice lacking the gene fail to generate class-switched IgG antibody responses and all B-cells undergo default plasma cell differentiation upon antigenic stimulation. While the mechanism by which Bach2 controls B-cell memory fate has been elucidated (it binds and represses the promoter of the gene that encodes the plasma cell master regulatory transcription factor Blimp-1), the upstream mechanism by which the function of Bach2 is regulated is unknown. There is evidence suggesting that Bach2 is phosphorylated in B-cells following stimulation and suspect that this modification may allow the B-cell signaling apparatus to control Bach2 activity and therefore memory fate decisions. Anti-Bach2 is ideal for researchers interested in Cancer and DNA Damage & Repair research.

Product images:



Western Blot of Rabbit anti-Bach2 antibody. Lane 1: 293T cell lysates overexpressing Bach2-Flag. Lane 2: 293T cell lysates. Load: 20 ug per lane. Primary antibody: Bach-2 antibody at 1:1000 for overnight at 4°C. Secondary antibody: rabbit HRP secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 91.7 kDa, ~130 kDa for Bach2. Other band (s): none.