Human Bcl-9 Antibody

Monoclonal Mouse IgG_{2B} Clone # 417514

Catalog Number: MAB3996

DESCRIPTION

Species Reactivity	Human
Specificity	Detects endogenous human Bcl-9 in Western blots.
Source	Monoclonal Mouse IgG_{2B} Clone # 417514
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human Bcl-9 Met1009-Gly1328 Accession # O00512
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

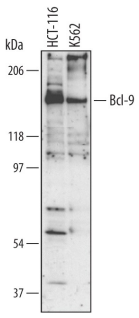
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	0.5 µg/mL	See Below

DATA

Western Blot



Detection of Human Bcl-9 by Western Blot. Western blot shows lysates of HCT-116 human colorectal carcinoma cell line and K562 human chronic myelogenous leukemia cell line. PVDF membrane was probed with 0.5 µg/mL of Human Bcl-9 Monoclonal Antibody (Catalog # MAB3996) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for Bcl-9 at approximately 150 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Bcl-9 (B-cell lymphoma 9; also Protein legless homolog) is a 149 kDa transcriptional regulator that belongs to the Bcl-9 family of proteins. It is expressed in multiple tissues and serves to recruit Pygopus to the Wnt-pathway β-catenin-TCF complex in the nucleus. Bcl-9 and Bcl-9-2 are considered evolutionary duplicates of Legless that perform the same task with different regulatory mechanisms. Human Bcl-9 is 1426 amino acids (aa) in length. It contains one phosphothreonine and three phosphoserine sites, two poly-Pro regions (aa 514-517 and 970-973), and one poly-Ala segment (aa 900-903). There is one potential alternate start site at Met27, and a variant isoform exists that shows a four aa substitution for aa 1391-1426. Over aa 1009-1328, human Bcl-9 is 96% aa identical to mouse Bcl-9. B cell cancers often have translocations at the 3'UTR region of the Bcl-9 gene.

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