

Bcl-9 polyclonal antibody

Catalog: BS71650

Host: Rabbit

Reactivity: Human, Mouse, Rat

Background:

B-cell CLL/lymphoma 9 protein (BCL9) is a widely conserved adaptor protein that functions as a transcriptional co-activator in the canonical Wnt signaling pathway. BCL9 is a core component of a nuclear protein complex (BCL9, LEF/TCF, β -catenin and PYGO) that regulates the transcription of Wnt-dependent target genes. Research studies show that disrupting the interaction between BCL9 and β -catenin suppresses oncogenic Wnt signaling, suggesting a potential avenue for therapeutic intervention in Wnt-mediated cancers. BCL9 promotes association of PYGO with the tail of histone H3 that has been methylated at lysine 4 (H3K4me), suggesting a specific chromatin remodeling function for BCL9 in the Wnt signaling pathway. Research studies in colon epithelium and adenocarcinomas suggest that BCL9 is required to mediate Wnt-dependent stem cell behaviors, such as epithelial-mesenchymal transition. Crystallography studies revealed that BCL9 contains a β -catenin binding site that is distinct from the majority of known β -catenin binding partners, making it an attractive target for therapeutic drug development.

Product:

1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

~ 160, 170 kDa

Swiss-Prot:

Q9D219

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB, 1:500 - 1:2000 | IHC-P, 1:50 - 1:200

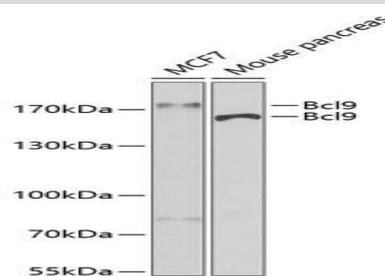
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

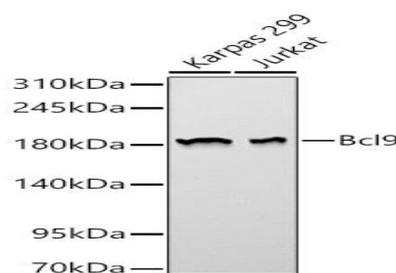
Specificity:

Bcl-9 polyclonal antibody detects endogenous levels of Bcl-9 protein.

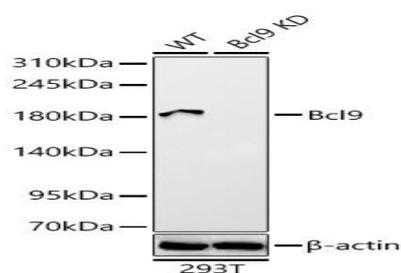
DATA:



Western blot analysis of various lysates using Bcl-9 pAb at 1:400 dilution.



Western blot analysis of various lysates using Bcl-9 pAb at 1:1000 dilution.



Western blot analysis of lysates from wild type (WT) and Bcl-9 knock-down (KD) 293T cells using Bcl-9 pAb at 1:1000 dilution.

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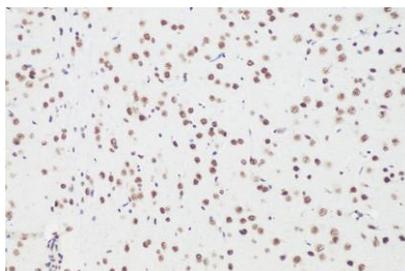
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PRODUCT DATA SHEET

Bioworld Technology, Inc.



Immunohistochemistry analysis of paraffin-embedded Rat brain using Bcl-9 pAb at dilution of 1:100 (20x lens).

Note:

For research use only, not for use in diagnostic procedure.

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