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Product datasheet for TA326930

BCL10 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB 1:500 - 1:2000
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant protein of human BCL10
Formulation:	Store at -20C or -80C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	B-cell CLL/lymphoma 10
Database Link:	NP_003912 Entrez Gene 12042 MouseEntrez Gene 83477 RatEntrez Gene 8915 Human O95999

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Background: Bcl10/CIPER/CLAP/mE10 is a widely expressed CARD (caspase recruitment domain) containing protein shown to induce apoptosis and activate NF-?B. The CARD domain mediates self-oligomerization, interactions with other CARD proteins and is necessary for NF-?B activation, although the precise mechanism which Bcl10 regulates these processes is not fully understood. The discovery of Bcl10 came from observations of the chromosomal translocation t(1;14)(p22;q32) from B cell lymphomas of the mucosa-associated lymphoid tissue (MALT). This translocation results in deregulated expression of a truncated form of Bcl10 which lacks apoptotic activity and enhances transformation. Studies from Bcl10 deficient mice demonstrate that Bcl10 is essential for the activation of NF-?B by T- and B-cell receptors. One third of Bcl10 deficient mice developed lethal exencephaly. Surviving mice were unaffected by various apoptotic stimuli, but were severely immunodeficient and defective in antigen receptor-induced NF-?Bactiviation. PKC or T-cell receptor signaling results in a downregulation of Bcl10 protein levels, attenuating both NF-?B activation and cellular proliferation and also provides a negative feedback regulation of the NF-?B signaling to T cell signaling.

Synonyms: c-E10; CARMEN; CIPER; CLAP; IMD37; mE10

Protein Families: Druggable Genome

Protein Pathways: B cell receptor signaling pathway, T cell receptor signaling pathway