ARG63096
anti-BLNK / SLP65 antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes BLNK / SLP65
Tested Reactivity	Ms
Tested Application	WB
Specificity	The polyclonal antibody reacts with mouse SLP65 / BLNK, a cytosolic adaptor protein identified as two phosphoproteins migrating at 68 and 70 kDa in SDS/PAGE (alternatively spliced forms of human SLP65).
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	BLNK / SLP65
Species	Human
Immunogen	A fusion protein representing amino acids 171-356 of human BLNK.
Conjugation	Un-conjugated
Alternate Names	SLP65; BLNK-S; B-cell linker protein; bca; B-cell adapter containing a Src homology 2 domain protein; SLP-65; AGM4; LY57; Cytoplasmic adapter protein; Src homology 2 domain-containing leukocyte protein of 65 kDa; BASH; B-cell adapter containing a SH2 domain protein

Application Instructions

Application table

Application	Dilution
WB	Assay-dependent

Application Note

WB: Sample preparation: Resuspend approx. 50 mil. cells in 1 ml cold Lysis buffer (1% laurylmaltoside in 20 mM Tris/Cl, 100 mM NaCl pH 8.2, 50 mM NaF including Protease inhibitor Cocktail). Incubate 60 min on ice. Centrifuge to remove cell debris. Mix lysate with reducing Laemmli SDS-PAGE sample buffer. Application note: Reducing condition.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

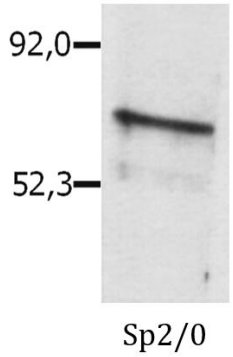
Form	Liquid
Purification	Purified from rabbit serum by precipitation methods.
Purity	> 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4) and 15 mM Sodium azide
Preservative	15 mM Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

	and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 17060 Mouse Swiss-port # Q9QUN3 Mouse
Gene Symbol	BLNK
Gene Full Name	B-cell linker
Background	SLP65 / BLNK (SH2 domain-containing leukocyte-specific phosphoprotein of 65 kDa; B cell linker protein), also known as BASH, is an adaptor protein that plays key role in B cell activation initiated by cross-linking the B cell receptor (BCR). Phosphorylated by Syk tyrosine kinase, SLP65 serves as a scaffold for Btk tyrosine kinase, Vav1 guanine nucleotide exchange factor, phospholipase C gamma2, as well as Grb2 and Nck adaptor proteins; thus represents a central linker protein that bridges the BCR-associated kinases with a multitude of signaling pathways.
Function	Functions as a central linker protein, downstream of the B-cell receptor (BCR), bridging the SYK kinase to a multitude of signaling pathways and regulating biological outcomes of B-cell function and development. Plays a role in the activation of ERK/EPHB2, MAP kinase p38 and JNK. Modulates AP1 activation. Important for the activation of NF-kappa-B and NFAT. Plays an important role in BCR-mediated PLCG1 and PLCG2 activation and Ca(2+) mobilization and is required for trafficking of the BCR to late endosomes. However, does not seem to be required for pre-BCR-mediated activation of MAP kinase and phosphatidyl-inositol 3 (PI3) kinase signaling. May be required for the RAC1-JNK pathway. Plays a critical role in orchestrating the pro-B cell to pre-B cell transition. May play an important role in BCR-induced B-cell apoptosis. [UniProt]
Research Area	Immune System antibody; Signaling Transduction antibody
Calculated Mw	50 kDa
PTM	Following BCR activation, phosphorylated on tyrosine residues by SYK and LYN. When phosphorylated, serves as a scaffold to assemble downstream targets of antigen activation, including PLCG1, VAV1, GRB2 and NCK1. Phosphorylation of Tyr-84, Tyr-178 and Tyr-189 facilitates PLCG1 binding. Phosphorylation of Tyr-96 facilitates BTK binding. Phosphorylation of Tyr-72 facilitates VAV1 and NCK1 binding. Phosphorylation is required for both Ca(2+) and MAPK signaling pathways.

Images



ARG63096 anti-BLNK / SLP65 antibody WB image

Western blot: Sp2/0 Mouse myeloma cell line lysate stained with ARG63096 anti-BLNK / SLP65 antibody, in reducing conditions.