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BCR

Purified Mouse Monoclonal Antibody
Catalog # AO2591a

Product Information

Application	WB, IHC, ICC, E
Primary Accession	P11274
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	6B5E12
Isotype	Mouse IgG1
Calculated MW	142819
Immunogen	Purified recombinant fragment of human BCR (AA: 139-280) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide

Additional Information

Gene ID	613
Other Names	ALL; CML; PHL; BCR1; D22S11; D22S662
Dilution	WB~~ 1/500 - 1/2000 IHC~~1:100~500 ICC~~N/A E~~ 1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	BCR is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	BCR (HGNC:1014)
Synonyms	BCR1, D22S11
Function	Protein with a unique structure having two opposing regulatory activities toward small GTP-binding proteins. The C-terminus is a GTPase-activating protein (GAP) domain which stimulates GTP hydrolysis by RAC1, RAC2 and CDC42. Accelerates the intrinsic rate of GTP hydrolysis of RAC1 or CDC42, leading to down-regulation of the active GTP-bound form (PubMed:17116687, PubMed:1903516, PubMed:7479768). The central Dbl homology (DH) domain functions as guanine nucleotide exchange factor (GEF) that modulates the

GTPases CDC42, RHOA and RAC1. Promotes the conversion of CDC42, RHOA and RAC1 from the GDP-bound to the GTP-bound form (PubMed:23940119, PubMed:7479768). The amino terminus contains an intrinsic kinase activity (PubMed:1657398). Functions as an important negative regulator of neuronal RAC1 activity (By similarity). Regulates macrophage functions such as CSF1-directed motility and phagocytosis through the modulation of RAC1 activity (PubMed:17116687). Plays a major role as a RHOA GEF in keratinocytes being involved in focal adhesion formation and keratinocyte differentiation (PubMed:23940119).

Cellular Location

Postsynaptic density {ECO:0000250|UniProtKB:Q6PAJ1}. Cell projection, dendritic spine {ECO:0000250|UniProtKB:Q6PAJ1}. Cell projection, axon {ECO:0000250|UniProtKB:Q6PAJ1}. Synapse {ECO:0000250|UniProtKB:F1LXF1}

References

1.Asian Pac J Cancer Prev. 2014;15(22):9961-6.2.Asian Pac J Cancer Prev. 2014;15(12):4773-80.

Images

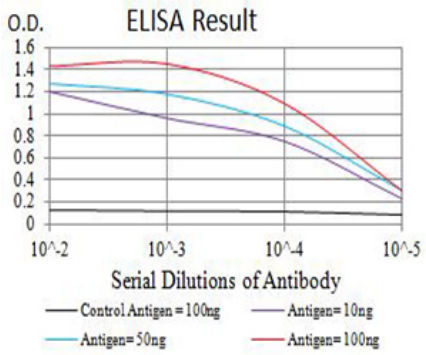


Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

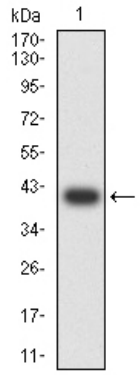
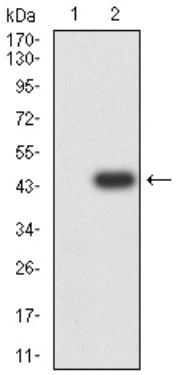


Figure 2:Western blot analysis using BCR mAb against human BCR (AA: 139-280) recombinant protein. (Expected MW is 41.6 kDa)

Figure 3:Western blot analysis using BCR mAb against HEK293 (1) and BCR (AA: 139-280)-hIgGFc transfected HEK293 (2) cell lysate.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.