10320 Camino Santa Fe, Suite G
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Phospho-Bcr-Y177 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AE1006b

Specification

Phospho-Bcr-Y177 Antibody - Product Information

Application	**WB, IHC**
Primary Accession	P11274
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Concentration	**1mg/ml**
Isotype	**Rabbit IgG**
Calculated MW	**142819**

Phospho-Bcr-Y177 Antibody - Additional Information

Gene ID 613

Other Names
Breakpoint cluster region protein, Renal carcinoma antigen NY-REN-26, BCR, BCR1, D22S11

Target/Specificity
The antibody was affinity-purified from rabbit antiserum using epitope-specific phosphopeptide column, and the antibody against non-phosphopeptide was removed using non-phosphopeptide column corresponding to the phosphorylation site.

Dilution
WB~~1:500~1:1000
IHC~~1:50~1:100

Format
affinity Purified IgG, in PBS, 0.02% sodium azide and 50% glycerol.

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
Phospho-Bcr-Y177 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Phospho-Bcr-Y177 Antibody - 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:7479768, PubMed:1903516, PubMed:17116687). 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:7479768, PubMed:23940119). 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}

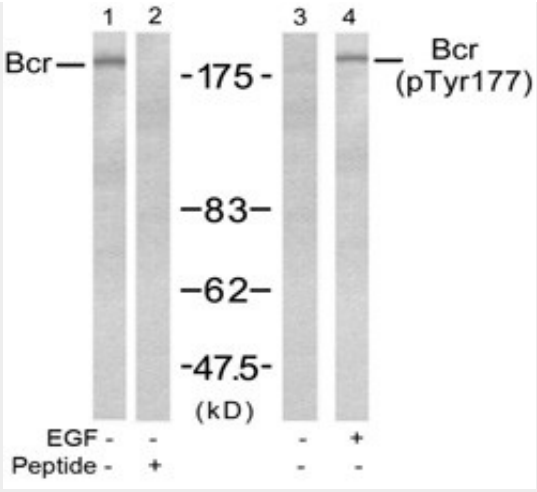
Phospho-Bcr-Y177 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

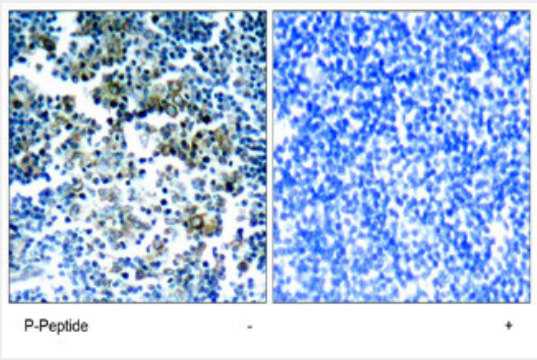
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Phospho-Bcr-Y177 Antibody - Images

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Western blot analysis of extract from A431 ce lls, untreated or treated with EGF (200ng/ml, 5min), using Bcr Antibody (Y177) (#AE1006a, Lane 1 and 2) and Phospho-Bcr-Y177 Antibody (#AE1006b, Lane 3 and 4).



Immunohistochemical analysis of paraffin-embedded human tonsil tumor tissue, using Phospho-Bcr-Y177 Antibody (#AE1006b).