Anti-Phospho-BCAR1 (Tyr410) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R014918

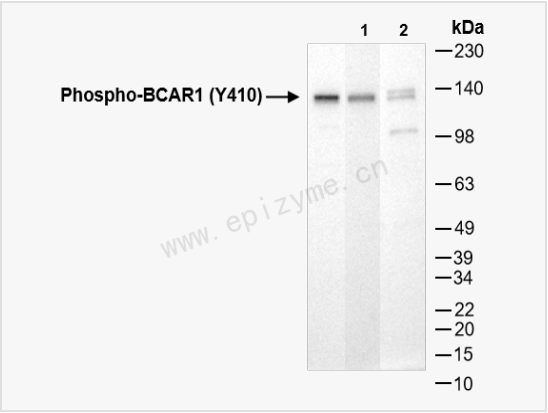
Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	67R00N60
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human PNK/PNKP
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Phospho-BCAR1 (Tyr410) Rabbit mAb [67R00N60] is for research use only and not for use in diagnostic or therapeutic procedures.

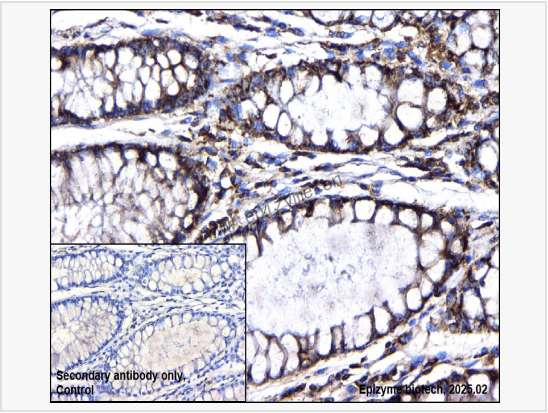
Protein Information

Synonyms	BCAR 1, Bcar1, BCAR1_HUMAN, Breast cancer anti estrogen resistance 1, Breast cancer anti estrogen resistance 1 protein, Breast cancer anti-estrogen resistance protein 1, CAS, Cas scaffolding protein family member 1, CAS1, Cass1, Crk associated substrate, Crk associated substrate p130Cas, CRK-associated substrate, CRKAS, FLJ12176, FLJ45059, p130cas.
Calculated MW	Calculated MW: 93 kDa; Observed MW: 130 kDa
Uniprot ID	P56945
Gene ID	9564
Background	The protein encoded by this gene is a member of the Crk-associated substrate (CAS) family of scaffold proteins, characterized by the presence of multiple protein-protein interaction domains and many serine and tyrosine phosphorylation sites. The encoded protein contains a Src-homology 3 (SH3) domain, a proline-rich domain, a substrate domain which contains 15 repeat of the YxxP consensus phosphorylation motif for Src family kinases, a serine-rich domain, and a bipartite Src-binding domain, which can bind both SH2 and SH3 domains. This adaptor protein functions in multiple cellular pathways, including in cell motility, apoptosis and cell cycle control. Dysregulation of this gene can have a wide range of effects, affecting different pathways, including cardiac development, vascular smooth muscle cells, liver and kidney function, endothelial migration, and cancer. [provided by RefSeq, Sep 2017]
Cellular Location	Cell junction, focal adhesion. Cytoplasm. Unphosphorylated form localizes in the cytoplasm and can move to the membrane upon tyrosine phosphorylation.

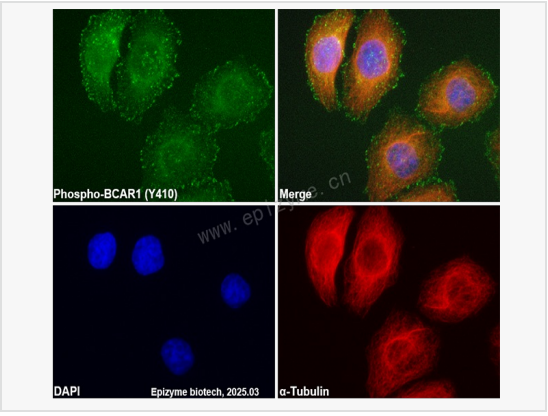
Validation Images



Western Blot - Anti-Phospho-BCAR1 (Tyr410) Rabbit mAb [67R00N60]
All lanes: R014918 at 1:1,000 dilution
Lane 1: Caco2 (Human colorectal adenocarcinoma epithelial cell) whole cell lysates
Lane 2: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates
Lane 3: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 93 kDa
Observed band size: 130 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-Phospho-BCAR1 (Tyr410) Rabbit mAb [67R00N60]
Sample: Paraformaldehyde-fixed, paraffin embedded human rectal adenocarcinoma tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R014918 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunofluorescence - Anti-Phospho-BCAR1 (Tyr410) Rabbit mAb [67R00N60]
Sample: Hela cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R014918 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).