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BCAR3 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant BCAR3.
Catalog # AT1278a

Specification

BCAR3 Antibody (monoclonal) (M01) - Product Information

Application	**WB, E**
Primary Accession	O75815
Other Accession	BC039895
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG2a Kappa**
Calculated MW	**92566**

BCAR3 Antibody (monoclonal) (M01) - Additional Information

Gene ID 8412

Other Names
Breast cancer anti-estrogen resistance protein 3, Novel SH2-containing protein 2, SH2 domain-containing protein 3B, BCAR3, NSP2, SH2D3B

Target/Specificity
BCAR3 (AAH39895, 266 a.a. ~ 373 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution
WB~~1:500~1000
E~~N/A

Format
Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage
Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions
BCAR3 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

BCAR3 Antibody (monoclonal) (M01) - Protocols

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

- Western Blot
- Blocking Peptides

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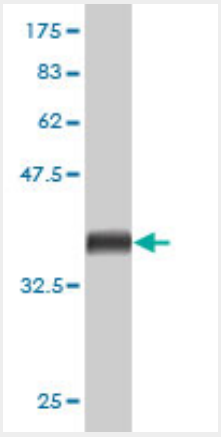
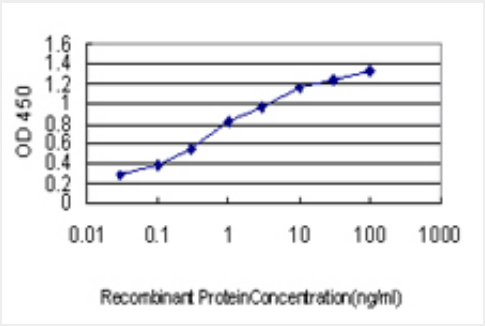
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

BCAR3 Antibody (monoclonal) (M01) - Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.51 KDa) .



Detection limit for recombinant GST tagged BCAR3 is approximately 0.03ng/ml as a capture antibody.

BCAR3 Antibody (monoclonal) (M01) - Background

Breast tumors are initially dependent on estrogens for growth and progression and can be inhibited by anti-estrogens such as tamoxifen. However, breast cancers progress to become anti-estrogen resistant. Breast cancer anti-estrogen resistance gene 3 was identified in the search for genes involved in the development of estrogen resistance. The gene encodes a component of intracellular signal transduction that causes estrogen-independent proliferation in human breast cancer cells. The protein contains a putative src homology 2 (SH2) domain, a hall mark of cellular tyrosine kinase signaling molecules, and is partly homologous to the cell division cycle protein CDC48.

BCAR3 Antibody (monoclonal) (M01) - References

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.BCAR3 regulates Src/p130 Cas association, Src kinase activity, and breast cancer adhesion signaling. Schuh NR, et al. J Biol Chem, 2010 Jan 22. PMID 19940159.Gene-centric association signals for lipids and apolipoproteins identified via the

HumanCVD BeadChip. Talmud PJ, et al. Am J Hum Genet, 2009 Nov. PMID 19913121.AND-34/BCAR3 regulates adhesion-dependent p130Cas serine phosphorylation and breast cancer cell growth pattern. Makkinje A, et al. Cell Signal, 2009 Sep. PMID 19454314.BCAR3 regulates EGF-induced DNA synthesis in normal human breast MCF-12A cells. Oh MJ, et al. Biochem Biophys Res Commun, 2008 Oct 24. PMID 18722344.