

BCAR3 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant BCAR3.

Catalog # AT1278a

Product Information

Application	WB, E
Primary Accession	O75815
Other Accession	BC039895
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	3G4
Calculated MW	92566

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.

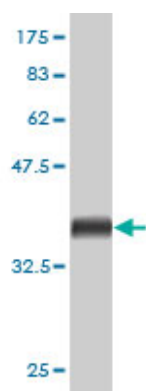
Background

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.

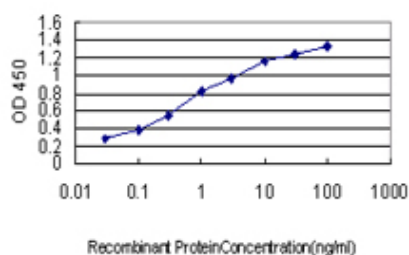
References

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.

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.

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