

BCAR3 Polyclonal Antibody

Catalog No :	YT0463
Reactivity :	Human;Rat;Mouse;
Applications :	WB;IHC;IF;ELISA
Target :	BCAR3
Gene Name :	BCAR3
Protein Name :	Breast cancer anti-estrogen resistance protein 3
Human Gene Id :	8412
Human Swiss Prot No :	O75815
Mouse Swiss Prot No :	Q9QZK2
Immunogen :	The antiserum was produced against synthesized peptide derived from human BCAR3. AA range:761-810
Specificity :	BCAR3 Polyclonal Antibody detects endogenous levels of BCAR3 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:10000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	92kD

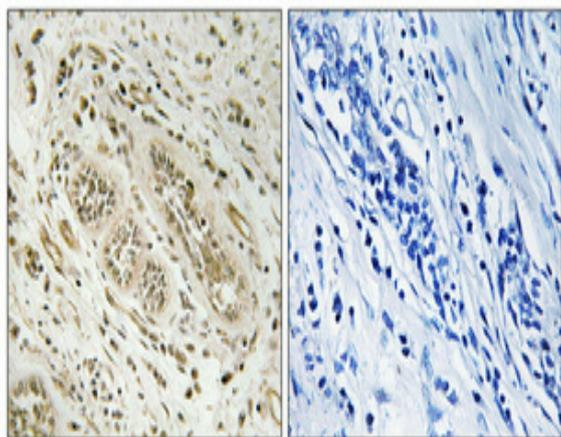
Background : breast cancer anti-estrogen resistance 3(BCAR3) Homo sapiens Breast tumors are initially dependent on estrogens for growth and progression and can be inhibited by anti-estrogens such as tamoxifen. However, breast cancers progress to become anti-estrogen resistant. Breast cancer anti-estrogen 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. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2012],

Function : function:May act as an adapter protein and couple activated growth factor receptors to a signaling pathway that regulates the proliferation in breast cancer cells. When overexpressed, it confers anti-estrogen resistance in breast cancer cell lines. May also be regulated by cellular adhesion to extracellular matrix proteins.,PTM:Phosphorylated on tyrosine.,similarity:Contains 1 Ras-GEF domain.,similarity:Contains 1 SH2 domain.,subunit:Interacts with BCAR1, NEDD9, PTK2 and PTPN1.,tissue specificity:Ubiquitously expressed. Found in several cancer cell lines, but not in nonmalignant breast tissue.,

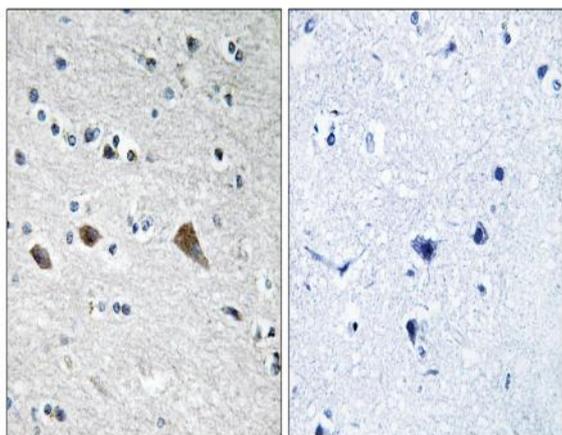
Subcellular Location : Cytoplasm . Cell junction, focal adhesion . Localization to focal adhesions depends on interaction with PTPRA. .

Expression : Ubiquitously expressed. Found in several cancer cell lines, but not in nonmalignant breast tissue.

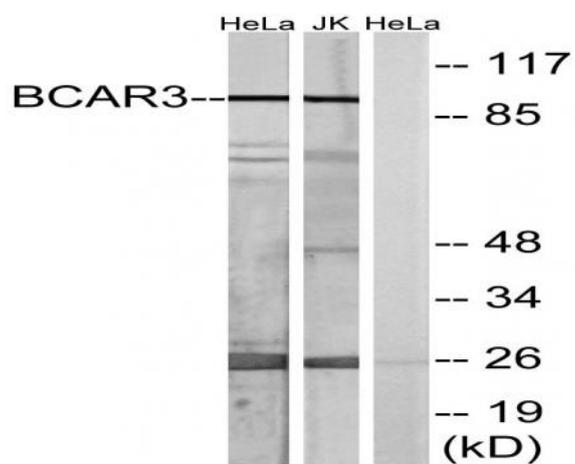
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Immunohistochemical analysis of paraffin-embedded Human breast cancer. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negative contrl (right) obtained from antibody was pre-absorbed by immunogen peptide.



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using BCAR3 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HeLa and Jurkat cells, using BCAR3 Antibody. The lane on the right is blocked with the synthesized peptide.