TACC2 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	TACC2, Blocking Peptide
Full Product Name	TACC2 Blocking Peptide
Product Gene Name	TACC2 blocking peptide
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	TACC2 peptide (MBS9622377) is used for blocking the activity of TACC2 antibody (MBS9612433)
Molecular Weight	2948
OMIM	605302
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for TACC2 blocking peptide	Blocking/Control
Related Product Information for TACC2 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of TACC2 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for TACC2 purchase	MBS9622377 is a blocking peptide targeting TACC2.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TACC2. It may not necessarily be applicable to this product.

NCBI GI #	122066295
NCBI GeneID	10579
NCBI Accession #	O95359.3
UniProt Primary Accession #	O95359
UniProt Secondary Accession #	Q4VXL0; Q4VXL3; Q4VXL6; Q4VXL7; Q5U5T7; Q86WG6; Q86WG7; Q8TCK9; Q9BVQ1; Q9NZ41; Q9NZR5
UniProt Related Accession #	O95359
NCBI Official Full Name	Transforming acidic coiled-coil-containing protein 2

NCBI Official Synonym Full Names	transforming, acidic coiled-coil containing protein 2
NCBI Official Symbol	TACC2
NCBI Official Synonym Symbols	AZU-1; ECTACC
UniProt Protein Name	Transforming acidic coiled-coil-containing protein 2
UniProt Synonym Protein Names	Anti-Zuai-1; AZU-1
Protein Family	Transforming acidic coiled-coil-containing protein
UniProt Gene Name	TACC2
UniProt Synonym Gene Names	AZU-1
UniProt Entry Name	TACC2_HUMAN
NCBI Protein Information	transforming acidic coiled-coil-containing protein 2; anti zuai-1
NCBI Summary for TACC2	Transforming acidic coiled-coil proteins are a conserved family of centrosome- and microtubule-interacting proteins that are implicated in cancer. This gene encodes a protein that concentrates at centrosomes throughout the cell cycle. This gene lies within a chromosomal region associated with tumorigenesis. Expression of this gene is induced by erythropoietin and is thought to affect the progression of breast tumors. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for TACC2	TACC2: Plays a role in the microtubule-dependent coupling of the nucleus and the centrosome. Involved in the processes that regulate centrosome-mediated interkinetic nuclear migration (INM) of neural progenitors. May play a role in organizing centrosomal microtubules. May act as a tumor suppressor protein. May represent a tumor progression marker. Belongs to the TACC family. 6 isoforms of the human protein are produced by alternative splicing. Protein type: Cell cycle regulation Chromosomal Location of Human Ortholog: 10q26 Cellular Component: microtubule cytoskeleton; nucleoplasm; cytoplasm; nucleolus; microtubule organizing center; nucleus Molecular Function: protein domain specific binding; nuclear hormone receptor binding Biological Process: cell proliferation; regulation of microtubule-based process; astral microtubule organization and biogenesis; neurogenesis; cerebral cortex development; microtubule cytoskeleton organization and biogenesis; interkinetic nuclear migration
Research Articles on TACC2	**1.** Data suggest that TACC2 is highly expressed in prostate cancer cells and contributes to cell cycle progression and cell proliferation in androgen-nonresponsive prostate cancer cells; overexpression of TACC2 leads to recurrence of prostate cancer.
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