TBCC Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TBCC, Polyclonal Antibody
Full Product Name	TBCC, NT (TBCC, Tubulin-specific chaperone C, Tubulin-folding cofactor C) (MaxLight 490)
Product Gene Name	anti-TBCC antibody
Product Synonym Names	TBCC; Tubulin-specific chaperone C; Tubulin-folding cofactor C
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	39,248 Da
OMIM	602971
3D Structure	ModBase 3D Structure for Q15814
Immunogen	TBCC antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 19-49 amino acids from the N-terminal region of human TBCC.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-TBCC antibody	Antibodies; Tubulin
Applications Tested/Suitable for anti-TBCC antibody	Western Blot (WB), FLISA
Application Notes for anti-TBCC antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-TBCC antibody	Cofactor C is one of four proteins (cofactors A, D, E, and C) involved in the pathway leading to correctly folded beta-tubulin from folding intermediates. Cofactors A and D are believed to play a role in capturing and stabilizing beta-tubulin intermediates in a quasi-native confirmation. Cofactor E binds to the cofactor D/beta-tubulin complex; interaction with cofactor C then causes the release of beta-tubulin polypeptides that are committed to the native state.
Product References and Citations for anti-TBCC antibody	Hage-Sleiman, R., et al. BMC Cancer 10, 135 (2010): Nature 447(7145):661-678(2007). Mungall, A.J., et al. Nature 425(6960):805-811(2003). Bartolini, F., et al. J. Biol. Chem. 277(17):14629-14634(2002). Tian, G., et al. Cell 86(2):287-296(1996).

Other Notes	Small volumes of anti-TBCC antibody 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 TBCC purchase	MBS6354013 is an antibody targeting TBCC. Also known as TBCC, NT (TBCC, Tubulin-specific chaperone C, Tubulin-folding cofactor C) (MaxLight 490). Reactive in Mouse. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	4507373
NCBI GeneID	6903
NCBI Accession #	NP_003183.1
UniProt Primary Accession #	Q15814
UniProt Secondary Accession #	Q53Y43; Q5T787
UniProt Related Accession #	Q15814
GenBank Nucleotide #	NM_003192.2
NCBI Official Full Name	tubulin-specific chaperone C
NCBI Official Synonym Full Names	tubulin folding cofactor C
NCBI Official Symbol	TBCC
NCBI Official Synonym Symbols	CFC
UniProt Protein Name	Tubulin-specific chaperone C
UniProt Synonym Protein Names	Tubulin-folding cofactor C; CFC
Protein Family	TBCC domain-containing protein
UniProt Gene Name	TBCC
UniProt Synonym Gene Names	CFC
UniProt Entry Name	TBCC_HUMAN
NCBI Protein Information	tubulin-specific chaperone C; tubulin-folding cofactor C
UniProt Comments for TBCC	TBCC: Tubulin-folding protein; involved in the final step of the tubulin folding pathway. Belongs to the TBCC family. Chromosomal Location of Human Ortholog: 6p21.1 Cellular Component: microtubule; cytoskeleton; cytoplasm; photoreceptor connecting cilium Molecular Function: GTPase activity; chaperone binding Biological Process: 'de novo' posttranslational protein folding; cellular protein metabolic process; protein folding; cell morphogenesis; post-chaperonin tubulin folding pathway
Research Articles on TBCC	**1.** a testable model for TBCC N-terminal domain/tubulin recognition in which the highly charged N-terminus as well as residues from the three helices and the loops interact with the acidic hypervariable regions of tubulin monomers
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