ARG22255
anti-TCP1 alpha antibody [23c]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rat Monoclonal antibody [23c] recognizes TCP1 alpha
Tested Reactivity	Ms, Rat, Bov, Dog, Hm, Rb, Sheep
Tested Application	ICC/IF, IP, WB
Specificity	Detects ~60kDa. Also detects ~92kDa. The addition of an alanine (LDDA COOH) prevents binding in ELISA assays to immobilized synthetic peptide sequences.
Host	Rat
Clonality	Monoclonal
Clone	23c
Isotype	IgG2c
Target Name	TCP1 alpha
Species	Mouse
Immunogen	Purified recombinant Mouse TCP1 alpha construct encoding the C-terminal half of the 1.8 kb full-length Tcp 1b gene expressed in E. coli. Detects the COOH group.
Conjugation	Un-conjugated
Alternate Names	T-complex protein 1 subunit alpha; CCT1; D6S230E; TCP-1-alpha; CCTa; CCT-alpha

Application Instructions

Application table

Application	Dilution
ICC/IF	1:100
IP	Assay-dependent
WB	1:1000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Observed Size: ~60 kDa and ~92 kDa

Properties

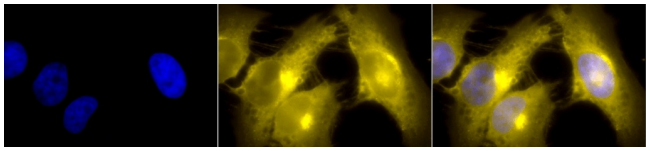
Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.4), 0.1% Sodium azide and 50% Glycerol
Preservative	0.1% Sodium azide
Stabilizer	50% Glycerol

Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

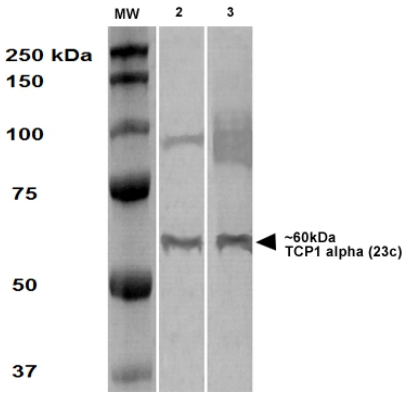
Gene Symbol	Tcp1
Gene Full Name	t-complex protein 1
Background	The protein encoded by this gene is a molecular chaperone that is a member of the chaperonin containing TCP1 complex (CCT), also known as the TCP1 ring complex (TRiC). This complex consists of two identical stacked rings, each containing eight different proteins. Unfolded polypeptides enter the central cavity of the complex and are folded in an ATP-dependent manner. The complex folds various proteins, including actin and tubulin. Alternate transcriptional splice variants of this gene, encoding different isoforms, have been characterized. In addition, three pseudogenes that appear to be derived from this gene have been found. [provided by RefSeq, Jun 2010]
Function	Molecular chaperone; assists the folding of proteins upon ATP hydrolysis. As part of the BBS/CCT complex may play a role in the assembly of BBSome, a complex involved in ciliogenesis regulating transports vesicles to the cilia. Known to play a role, in vitro, in the folding of actin and tubulin. [UniProt]
Calculated Mw	60 kDa
Cellular Localization	Cytoplasm

Images



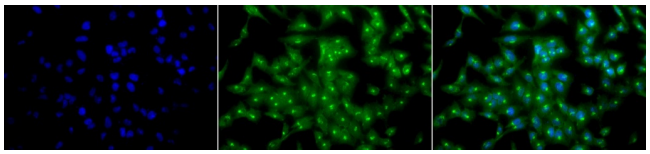
ARG22255 anti-TCP1 alpha antibody [23c] ICC/IF image

Immunocytochemistry: 2% Formaldehyde (20 min at RT) fixed Heat Shocked HeLa cells stained with ARG22255 anti-TCP1 alpha antibody [23c] (yellow) at 1:100 dilution (12 hours at 4°C). Counterstain: DAPI (blue) nuclear stain at 1:40000 for 120 min at RT. Magnification: 100x. Left: DAPI (blue) nuclear stain, Middle: Primary antibody, Right: Composite.



ARG22255 anti-TCP1 alpha antibody [23c] WB image

Western blot: 1) MW ladder, 20 µg of 2) A431 lysate, and 3) HEK293 lysate stained with ARG22255 anti-TCP1 alpha antibody [23c] (60 min at RT). Block: 5% milk + TBST 1hr at RT.



ARG22255 anti-TCP1 alpha antibody [23c] ICC/IF image

Immunocytochemistry: 2% Formaldehyde (20 min at RT) fixed Heat Shocked HeLa cells stained with ARG22255 anti-TCP1 alpha antibody [23c] (green) at 1:100 dilution (12 hours at 4°C). Counterstain: DAPI (blue) nuclear stain at 1:40000 for 120 min at RT. Magnification: 20x. Left: DAPI (blue) nuclear stain, Middle: Primary antibody, Right: Composite.