

ARG23190 anti-CCT5 / TCP1 epsilon antibody [PK/29/23/8d]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rat Monoclonal antibody [PK/29/23/8d] recognizes CCT5 / TCP1 epsilon Rat anti CCT epsilon antibody, clone PK/29/23/8d recognises the epsilon polypeptide of the CCT chaperonin molecule complex. CCT epsilon, also known as T-complex protein 1 subunit epsilon, CCT5 or CCTε is a 540 amino acid ~60 kDa molecular chaperone. The intact CCT complex is composed of eight polypeptides in a double-ring structure. CCT is important within cells in aiding the folding of proteins including actin, tubulin and the VHL tumour suppressor protein. Two isoforms of CCTε produced by alternative splicing have been described. Rat anti CCT epsilon antibody, clone PK/29/23/8d binds to the canonical isoform 1, binding to the truncated isoform 2 has not been evaluated (UniProt : P48643). Mutations in the CCT5 gene can lead to the development of Neuropathy, hereditary sensory, with spastic paraplegia, autosomal recessive (HSNSP) a disease characterized by spastic paraplegia and progressive neuropathy with limb ulceration (Bouhouche et al. 2006).
Tested Reactivity	Hu, Ms, Rat, Hu, Bov, Rb
Tested Application	GSA, IP, WB
Host	Rat
Clonality	Monoclonal
Clone	PK/29/23/8d
Isotype	IgG2a
Target Name	CCT5 / TCP1 epsilon
Species	Human
Conjugation	Un-conjugated
Alternate Names	TCP-1-epsilon; HEL-S-69; T-complex protein 1 subunit epsilon; CCT-epsilon; PNAS-102; CCTE

Application Instructions

Application table	Application	Dilution
	GSA	Assay-dependent
	IP	Assay-dependent
	WB	1:250 - 1:500
Application Note	WB: This product detects a band of approximately 60 kDa in lysates of heat shocked HeLa cells. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS and 0.09% Sodium azide.

Preservative	0.09% Sodium azide
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 or below. 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	CCT5
Gene Full Name	chaperonin containing TCP1, subunit 5 (epsilon)
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. Mutations in this gene cause hereditary sensory and autonomic neuropathy with spastic paraplegia (HSNSP). Alternative splicing results in multiple transcript variants. Related pseudogenes have been identified on chromosomes 5 and 13. [provided by RefSeq, Apr 2015]
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