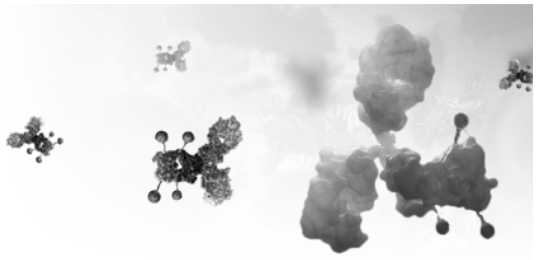

Mouse anti-Human CEP57 monoclonal antibody, clone 2F0 (CABT-B9950)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	CEP57 (NP_055494, 19 a.a. ~ 129 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	2F0
Conjugate	Unconjugated
Applications	WB,IF,ELISA
Sequence Similarities	AEPSRSNGSMVRHSSSPYVVYPSDKPFLNSDLRRSPSKPTLAYPESNSRAIFSALKNLQD KIRRLELERIQAEESVKTLSRETIEYKKVLDEQIQERENSKNEESKHNQE*
Format	Liquid
Size	100 µg
Buffer	In 1x PBS, pH 7.2
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

BACKGROUND

Introduction	This gene encodes a cytoplasmic protein called Translokin. This protein localizes to the centrosome and has a function in microtubular stabilization. The N-terminal half of this protein

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	is required for its centrosome localization and for its multimerization, and the C-terminal half is required for nucleating, bundling and anchoring microtubules to the centrosomes. This protein specifically interacts with fibroblast growth factor 2 (FGF2), sorting nexin 6, Ran-binding protein M and the kinesins KIF3A and KIF3B, and thus mediates the nuclear translocation and mitogenic activity of the FGF2. It also interacts with cyclin D1 and controls nucleocytoplasmic distribution of the cyclin D1 in quiescent cells. This protein is crucial for maintaining correct chromosomal number during cell division. Mutations in this gene cause mosaic variegated aneuploidy syndrome, a rare autosomal recessive disorder. Multiple alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Aug 2011]
Keywords	CEP57; centrosomal protein 57kDa; MVA2; PIG8; TSP57; centrosomal protein of 57 kDa; translokin; FGF2-interacting protein; testis-specific protein 57; proliferation-inducing protein 8;

GENE INFORMATION

Entrez Gene ID	9702
UniProt ID	Q86XR8
Pathway	Cell Cycle, Mitotic, organism-specific biosystem; Centrosome maturation, organism-specific biosystem; G2/M Transition, organism-specific biosystem; Loss of Nlp from mitotic centrosomes, organism-specific biosystem; Loss of proteins required for interphase microtubule organizationµfrom the centrosome, organism-specific biosystem; Mitotic G2-G2/M phases, organism-specific biosystem
Function	fibroblast growth factor binding; microtubule binding; protein binding; protein homodimerization activity

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