

Mouse anti-Human Cyclophilin B Monoclonal Antibody | anti-PPIB antibody

Cyclophilin B Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71579	Mouse	Human	Immunoprecipitation, Immunocytochemistry, ELISA, Western Blot

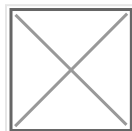
PRODUCT SYNONYMS

Cyclophilin B; Monoclonal Antibody; Cyclophilin B Antibody; Cyclophilin B M019; anti-PPIB antibody

PRODUCT SPECIFICATIONS

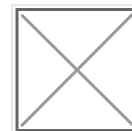
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Clone Number	M019
Specificity	Clone M019 detects a 20kDa* band corresponding to the molecular mass of cyclophilin B on SDS-PAGE immunoblots of human LNCaP, MeWo, MCF7, and MDA-MB-231 cell lysates, as well as full length recombinant cyclophilin B, but does not detect recombinant cyclophilin A. The antibody can be used for western blot, immunoprecipitation, protein ELISA, and immunocytochemistry.
Purity/Purification	Protein G chromatography
Form/Format	Mouse monoclonal antibody purified with protein G chromatography is supplied in 100ul phosphate-buffered saline, 50% glycerol, 1mg/ml BSA, and 0.05% sodium azide.
Applicable Applications for anti-PPIB antibody	IP (Immunoprecipitation), ICC (Immunocytochemistry), ELISA, WB (Western Blot)
Immunogen	Clone M019 was generated from a proprietary antigen related to cyclophilin B from the MCF7 breast cancer cell line.
Preparation and Storage	Store at -20 degree C. Stable for 1 year.

IMAGES



ICC (Immunocytochemistry)

Immunocytochemical labeling of cyclophilin B in methanol:acetone (1:1) fixed human A549 lung cancer cells. The cells were labeled with mouse monoclonal anti-cyclophilin B (CM0191). The antibody was detected using goat anti-mouse DyLight 594.



WB (Western Blot)

Western blot analysis of human LNCaP (lane 1), MCF7 (lane 2), MDA-MB-231 (lane 3), and MeWo (lane 4) cell lysates, as well as human recombinant full-length cyclophilin B (lane 5) and cyclophilin A (lane 6). The blot was probed with mouse monoclonal anti-cyclophilin B (CM0191) at 1:500.

ADDITIONAL INFORMATION

Related Product Information for anti-PPIB antibody	Cyclophilins are a highly conserved family of peptidylprolyl cis-trans-isomerases (PPI) that are targets of the immunosuppressant drug cyclosporin A. These isomerases have been proposed to aid in protein folding. Cyclophilin B (PPIB) is an ER-localized chaperone protein that associates with type I procollagen, and facilitates procollagen sorting and transport through the secretory compartment. Mutations in the cyclophilin B gene lead to aberrant biosynthesis of type I procollagen, and osteogenesis imperfecta, a disorder characterized by bone fragility. Cyclophilin B has also been implicated as a marker in several cancers, including glioblastomas, neuroblastomas, and gastric cancers. In gastric cancer, Stat3 suppression of miR-520d-5p leads to upregulation of its downstream target cyclophilin B, and enables the growth and survival of these cancer cells.
References	Li, T et al. (2017) Cancer Res. 77(5):1227. Pyott, SM et al. (2011) Hum Mol Genet. 20:1595.

NCBI AND UNIPROT INFORMATION

NCBI GI #	181250
NCBI GeneID	5479
UniProt Accession #	P23284; Q6IBH5; Q9BVK5; A8K534
Molecular Weight	23,743 Da
NCBI Official Full Name	cyclophilin, partial
NCBI Official Synonym Full Names	peptidylprolyl isomerase B (cyclophilin B)
NCBI Official Symbol	PPIB
NCBI Official Synonym Symbols	OI9; CYPB; SCYLP; CYP-S1
NCBI Protein Information	peptidyl-prolyl cis-trans isomerase B; PPIase B; rotamase B; S-cyclophilin; cyclophilin-like protein
UniProt Protein Name	Peptidyl-prolyl cis-trans isomerase B
UniProt Gene Name	PPIB
UniProt Synonym Gene Names	CYPB; PPIase B; SCYLP
UniProt Entry Name	PPIB_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.