

Product datasheet for **TA389110**

PPIB Mouse Antibody [Clone ID: M019]

Product data:

Product Type:	Primary Antibodies
Clone Name:	M019
Applications:	ICC, IP, WB
Recommended Dilution:	WB: 1:1000 ICC: 1:100
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Immunogen:	Clone M019 was generated from a proprietary antigen related to cyclophilin B from the MCF7 breast cancer cell line.
Specificity:	Clone M019 detects a 20 kDa* 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.
Formulation:	PBS + 1 mg/ml BSA, 0.05% NaN ₃ and 50% glycerol
Concentration:	lot specific
Purification:	Protein G Purified
Conjugation:	Unconjugated
Storage:	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
Stability:	After date of receipt, stable for at least 1 year at -20°C.
Predicted Protein Size:	20
Database Link:	P23284



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Background:

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.

Note:

Protein G purified tissue culture supernatant.