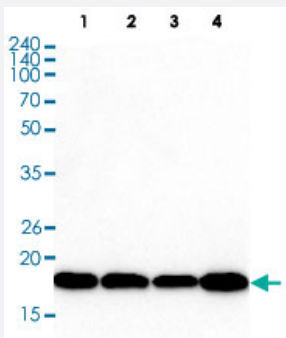


PPIF monoclonal antibody, clone AT1F5

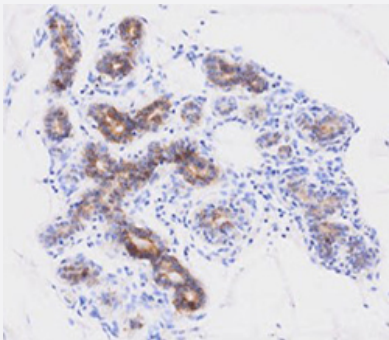
Catalog # MAB3214 Size 100 uL

Applications



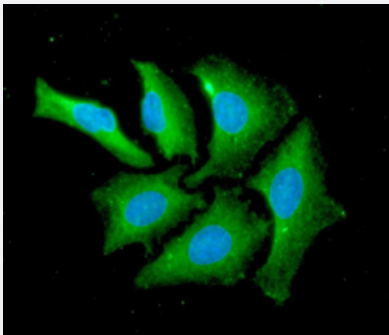
Western Blot (Cell lysate)

Western blot analysis of Lane 1: 293T cell lysate, Lane 2: HepG2 cell lysate, Lane 3: MCF7 cell lysate, Lane 4: PC3 cell lysate.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry of human breast cancer tissue were incubated with PPIF monoclonal antibody, clone AT1F5 (1:50) for 2 hours at room temperature. Antigen retrieval was performed in 0.1 M sodium citrate buffer and detected using Diaminobenzidine (DAB).



Immunofluorescence

Immunofluorescence analysis of HeLa cells. The cell was stained with PPIF monoclonal antibody, clone AT1F5 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Specification

Product Description

Mouse monoclonal antibody raised against partial recombinant PPIF.

Immunogen	Recombinant protein corresponding to amino acids 30-207 of human PPIF.
Host	Mouse
Reactivity	Human
Form	Liquid
Purification	Protein G purification
Isotype	IgG2b, kappa
Recommend Usage	ELISA Immunohistochemistry Immunocytochemistry Immunofluorescence Western Blot The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (10% glycerol, 0.02% sodium azide).
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of Lane 1: 293T cell lysate, Lane 2: HepG2 cell lysate, Lane 3: MCF7 cell lysate, Lane 4: PC3 cell lysate.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry of human breast cancer tissue were incubated with PPIF monoclonal antibody, clone AT1F5 (1:50) for 2 hours at room temperature. Antigen retrieval was performed in 0.1 M sodium citrate buffer and detected using Diaminobenzidine (DAB).

- Immunocytochemistry

- Immunofluorescence

Immunofluorescence analysis of HeLa cells. The cell was stained with PPIF monoclonal antibody, clone AT1F5 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

- Enzyme-linked Immunoabsorbent Assay

Gene Info — PPIF

Entrez GeneID [10105](#)

Protein Accession# [NP_005720](#)

Gene Name PPIF

Gene Alias CYP3, Cyp-D, FLJ90798, MGC117207

Gene Description peptidylprolyl isomerase F

Omim ID [604486](#)

Gene Ontology [Hyperlink](#)

Gene Summary The protein encoded by this gene is a member of the peptidyl-prolyl cis-trans isomerase (PPIase) family. PPIases catalyze the cis-trans isomerization of proline imidic peptide bonds in oligopeptides and accelerate the folding of proteins. This protein is part of the mitochondrial permeability transition pore in the inner mitochondrial membrane. Activation of this pore is thought to be involved in the induction of apoptotic and necrotic cell death. [provided by RefSeq]

Other Designations OTTHUMP00000019925|PPIase|cyclophilin 3|cyclophilin D|cyclophilin F|peptidyl-prolyl cis-trans isomerase, mitochondrial|rotamase

Publication Reference

- [Interactions of 17 \$\beta\$ -Hydroxysteroid Dehydrogenase Type 10 and Cyclophilin D in Alzheimer's Disease.](#)

Kristofikova Z, Springer T, Gedeonova E, Hofmannova A, Ricny J, Hromadkova L, Vyhnaek M, Laczko J, Nikolai T, Hort J, Petrsek T, Stuchlik A, Vales K, Klaschka J, Homola J.

Neurochemical Research 2020 Apr; 45(4):915.

Application: S-ELISA, Human, Rat, CSF, Brain extraction

- [Construction of a high-resolution physical map of the chromosome 10q22-q23 dilated cardiomyopathy locus and analysis of candidate genes.](#)

Bowles KR, Abraham SE, Brugada R, Zintz C, Comeaux J, Sorajja D, Tsubata S, Li H, Brandon L, Gibbs RA, Scherer SE, Bowles NE, Towbin JA.

Genomics 2000 Jul; 67(2):109.

- [The cyclophilin multigene family of peptidyl-prolyl isomerases. Characterization of three separate human isoforms.](#)

Bergsma DJ, Eder C, Gross M, Kersten H, Sylvester D, Appelbaum E, Cusimano D, Livi GP, McLaughlin MM, Kasyan K, et al..
The Journal of Biological Chemistry 1991 Dec; 266(34):23204.

Application: WB-Ce, WB-Re, Human, DU 145, HEK 293, HT-29, Jurkat cells, PANC-1 cells, Recombinant proteins, U-937 cells

Disease

- [Alzheimer Disease](#)
- [Genetic Predisposition to Disease](#)
- [Obesity](#)
- [Ovarian Failure](#)
- [Polycystic Ovary Syndrome](#)
- [Puberty](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)