

## PPIF Antibody

Catalog No: #33744

Package Size: #33744-1 50ul #33744-2 100ul

Orders: order@signalwayantibody.com

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## Description

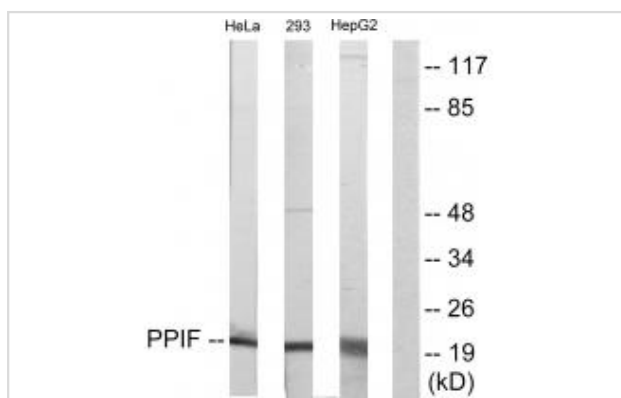
Product Name	PPIF Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Applications	WB IHC
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous levels of total PPIF protein.
Immunogen Type	Peptide
Immunogen Description	Synthesized peptide derived from internal of human PPIF.
Target Name	PPIF
Other Names	Peptidyl-prolyl cis-trans isomerase; mitochondrial [Precursor]; EC 5.2.1.8; PPlase; Rotamase
Accession No.	Swiss-Prot: P30405NCBI Gene ID: 10105
SDS-PAGE MW	22kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

## Application Details

Western blotting: 1:500~1:3000

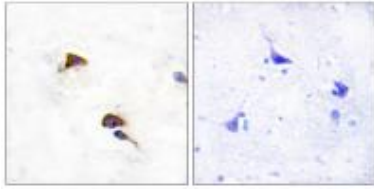
Immunohistochemistry: 1:50~1:100

## Images



Western blot analysis of extracts from HeLa cells, 293 cells and HepG2 cells, using PPIF antibody #33744.

Immunohistochemistry analysis of paraffin-embedded human brain tissue using PPIF antibody #33744.



## Background

PPIases accelerate the folding of proteins. It catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides. Involved in regulation of the mitochondrial permeability transition pore (mPTP). It is proposed that its association with the mPTP is masking a binding site for inhibiting inorganic phosphate (Pi) and promotes the open probability of the mPTP leading to apoptosis or necrosis; the requirement of the PPIase activity for this function is debated. In cooperation with mitochondrial TP53 is involved in activating oxidative stress-induced necrosis. Involved in modulation of mitochondrial membrane F1F0 ATP synthase activity and regulation of mitochondrial matrix adenine nucleotide levels. Has anti-apoptotic activity independently of mPTP and in cooperation with BCL2 inhibits cytochrome c-dependent apoptosis.

Bergsma D.J., J. Biol. Chem. 266:23204-23214(1991).

Deloukas P., Nature 429:375-381(2004).

The MGC Project Team, Genome Res. 14:2121-2127(2004).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.