ARG56980
anti-Cyclophilin F antibody [1F5]

Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [1F5] recognizes Cyclophilin F
Tested Reactivity	Hu
Tested Application	FACS, IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Clone	1F5
Isotype	IgG2b, kappa
Target Name	Cyclophilin F
Species	Human
Immunogen	Recombinant fragment around aa. 30-207 of Human Cyclophilin F.
Conjugation	Un-conjugated
Alternate Names	CypD; CyP-D; Peptidyl-prolyl cis-trans isomerase F, mitochondrial; Cyp-D; Cyclophilin F; Cyclophilin D; PPIase F; CyP-M; EC 5.2.1.8; CYP3; Mitochondrial cyclophilin; Rotamase F

Application Instructions

Application table

Application	Dilution
FACS	Assay-dependent
IHC-P	1:50
WB	1:500 - 1:1000

Application Note: IHC-P: Antigen Retrieval: Boil tissue section in 0.1M Sodium citrate buffer (pH 6.0) for 20 min.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

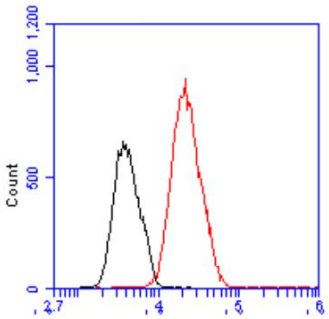
Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	10% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

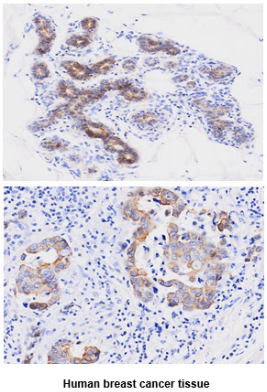
Database links	GeneID: 10105 Human Swiss-port # P30405 Human
Gene Symbol	PPIF
Gene Full Name	peptidylprolyl isomerase F
Background	The protein encoded by this gene is a member of the peptidyl-prolyl cis-trans isomerase (PPIase) family. PPIases catalyze the cis-trans isomerization of proline imidic peptide 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, Jul 2008]
Function	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 F(1)F(0) 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. [UniProt]
Calculated Mw	22 kDa
PTM	Deacteylated at Lys-167 by SIRT3.

Images



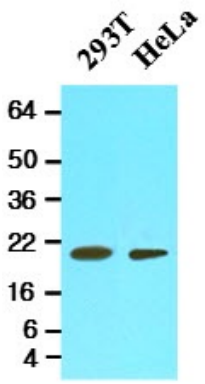
ARG56980 anti-Cyclophilin F antibody [1F5] FACS image

Flow Cytometry: Hep3B cell line stained with ARG56980 anti-Cyclophilin F antibody [1F5] at 2-5 µg for 1x10^6 cells (red line). Secondary antibody: Goat anti-Mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was Mouse IgG (black line).



ARG56980 anti-Cyclophilin F antibody [1F5] IHC-P image

Immunohistochemistry: Paraffin embedded sections of Human breast cancer tissue stained with ARG56980 anti-Cyclophilin F antibody [1F5] at 1:50 for 2 hours at RT. Antigen Retrieval: Boil tissue section in 0.1M Sodium citrate buffer (pH 6.0) for 20 min.



ARG56980 anti-Cyclophilin F antibody [1F5] WB image

Western blot: 20 µg of 293T and HeLa cell lysate stained with ARG56980 anti-Cyclophilin F antibody [1F5] at 1:500.