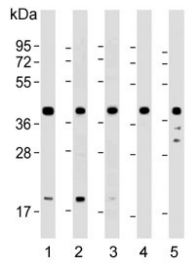
Cyclophilin D Antibody / PPID (F54323)

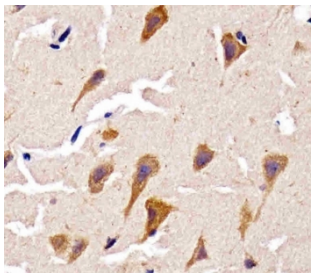
Catalog No.	Formulation	Size
F54323-0.2ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.2 ml
F54323-0.05ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.05 ml

Bulk quote request

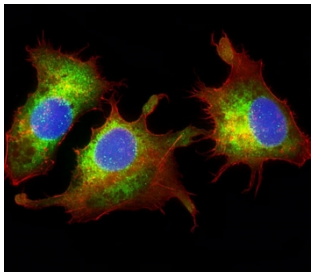
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity purified
UniProt	Q08752
Localization	Nuclear, cytoplasmic
Applications	Western blot: 1:500-1:2000 Flow cytometry: 1:25 (1x10e6 cells) Immunohistochemistry (FFPE): 1:25 Immunofluorescence: 1:25
Limitations	This Cyclophilin D antibody is available for research use only.



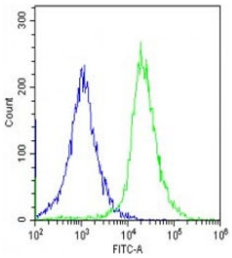
Western blot testing of human 1) K562, 2) HepG2, 3) Jurkat, 4) CCRF-CEM and 5) brain lysate with Cyclophilin D antibody. Predicted molecular weight: ~40 kDa



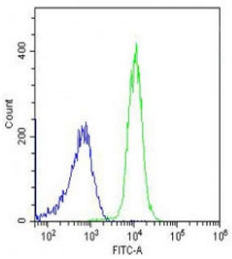
IHC testing of FFPE human brain tissue with Cyclophilin D antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



Immunofluorescent staining of fixed and permeabilized human HepG2 cells with Cyclophilin D antibody (green), DAPI nuclear stain (blue) and anti-Actin (red).



Flow cytometry testing of fixed and permeabilized human HepG2 cells with Cyclophilin D antibody; Blue=isotype control, Green= Cyclophilin D antibody.



Flow cytometry testing of fixed and permeabilized human K562 cells with Cyclophilin D antibody; Blue=isotype control, Green= Cyclophilin D antibody.

Description

PPIases accelerate the folding of proteins. It catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides. Proposed to act as a co-chaperone in HSP90 complexes such as in unligated steroid receptors heterocomplexes. Different co-chaperones seem to compete for association with HSP90 thus establishing distinct HSP90-co-chaperone-receptor complexes with the potential to exert tissue-specific receptor activity control. May have a preference for estrogen receptor complexes and is not found in glucocorticoid receptor complexes. May be involved in cytoplasmic dynein-dependent movement of the receptor from the cytoplasm to the nucleus. May regulate MYB by inhibiting its DNA- binding activity. Involved in regulation of AHR signaling by promoting the formation of the AHR:ARNT dimer; the function is independent of HSP90 but requires the chaperone activity. Involved in regulation of UV radiation-induced apoptosis. Promotes cell viability in anaplastic lymphoma kinase-positive anaplastic large- cell lymphoma (ALK+ ALCL) cell lines. May be involved in hepatitis C virus (HCV) replication and release.

Application Notes

The stated application concentrations are suggested starting points. Titration of the Cyclophilin D antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 336-370 from the human protein was used as the immunogen for the Cyclophilin D antibody.

Storage

Aliquot the Cyclophilin D antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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