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PPID Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP8788c

Specification

PPID Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q08752

PPID Antibody (Center) Blocking Peptide - Additional Information

Gene ID 5481

Other Names
Peptidyl-prolyl cis-trans isomerase D, PPIase D, 40 kDa peptidyl-prolyl cis-trans isomerase, Cyclophilin-40, CYP-40, Cyclophilin-related protein, Rotamase D, PPID, CYP40, CYPD

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP8788c was selected from the Center region of human PPID. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PPID Antibody (Center) Blocking Peptide - Protein Information

Name PPID (HGNC:9257)

Synonyms CYP40, CYPD

Function
PPIase that catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides and may therefore assist protein folding (PubMed:11350175, PubMed:20676357). 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.

Cellular Location
Cytoplasm. Nucleus, nucleolus. Nucleus, nucleoplasm

Tissue Location
Widely expressed.

PPID Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

PPID Antibody (Center) Blocking Peptide - Images

PPID Antibody (Center) Blocking Peptide - Background

PPIases accelerate the folding of proteins. It catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides.

PPID Antibody (Center) Blocking Peptide - References

Mayya V.,et.al., Sci. Signal. 2:RA46-RA46(2009).Gevaert K., et.al., Nat. Biotechnol. 21:566-569(2003).