

Cyclophilin A Conjugated Antibody

Catalog No: #C49446



Package Size: #C49446-AF350 100ul #C49446-AF405 100ul #C49446-AF488 100ul
#C49446-AF555 100ul #C49446-AF594 100ul #C49446-AF647 100ul
#C49446-AF680 100ul #C49446-AF750 100ul #C49446-Biotin 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Cyclophilin A Conjugated Antibody
Host Species	Rabbit
Clonality	Monoclonal
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	Cyclophilin A antibody Cyclophilin antibody CyclophilinA antibody Cyclosporin A binding protein antibody Cyclosporin A-binding protein antibody CYPA antibody CYPH antibody Epididymis secretory sperm binding protein Li 69p antibody HEL S 69p antibody MGC117158 antibody MGC12404 antibody MGC23397 antibody Peptidyl prolyl cis trans isomerase A antibody Peptidyl-prolyl cis-trans isomerase A antibody Peptidylprolyl isomerase A (cyclophilin A) antibody Peptidylprolyl isomerase A antibody PPIA antibody PPIA protein antibody PPIA_HUMAN antibody PPIase A antibody Rotamase A antibody RotamaseA antibody T cell cyclophilin antibody
Accession No.	Swiss-Prot#:P62937
Uniprot	P62937
GeneID	5478;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Calculated MW	18 kDa
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

Application Details

Suggested Dilution:
AF350 conjugated: most applications: 1: 50 - 1: 250
AF405 conjugated: most applications: 1: 50 - 1: 250
AF488 conjugated: most applications: 1: 50 - 1: 250
AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

Background

The immunosuppressant cyclosporin A (CsA) forms a trimolecular complex with cyclophilin and calcineurins to inhibit calcineurin phosphatase activity. Cyclophilins are conserved, ubiquitous and abundant cytosolic peptidyl-prolyl cis-trans isomerases that accelerate the isomerization of XaaPro peptide bonds and the refolding of proteins. Human cyclophilin A (CyPA), an intracellular protein of 165 amino acids, is the target of the CsA and is encoded by a single unique gene conserved from yeast to humans. CyPA is known for its involvement in T cell differentiation and proliferation and is highly expressed in brain. CyPA is incorporated into the virion of the type 1 human immunodeficiency virus (HIV-1) via a direct interaction with the capsid domain of the viral Gag polyprotein and is crucial for efficient viral replication. Cyclophilin B (CyPB) is a member of the cyclophilin family with specific N- and C-terminal extensions. Unlike CyPA, CyPB has a signal sequence leading to its translocation in the endoplasmic reticulum. CyPB is secreted in biological fluids such as blood or milk and binds to a specific receptor present on the human lymphoblastic cell line Jurkat and on human peripheral blood lymphocytes (9,10).

Note: This product is for in vitro research use only