

Anti-Cyclophilin A Antibody (4R688)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	4R688
Purification:	Affinity-chromatography

Applications

	Western Blot
	-Positive WB detected in: Raji whole cell lysate, HepG2 whole cell lysate
Verified Activity:	-All lanes: Cyclophilin A antibody at 1:1500
	-Secondary: Goat polyclonal to rabbit IgG at 1/50000 dilution
	-Predicted band size: 19, 12 kDa
	-Observed band size: 19 kDa
Application:	ELISA,WB
Recommended	WB:1:500-1:5000.

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	A synthetic peptide: Human Cyclophilin A
Antigen Species:	Human
Gene ID:	5478
Uniprot ID:	P62937
Synonyms:	CYPH;peptidylprolyl isomerase A (cyclophilin A);CYPA;HEL-S-69p
Biology Area:	Immunology, Signal transduction

Research Background

Catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides. Exerts a strong chemotactic effect on leukocytes partly through activation of one of its membrane receptors BSG/CD147, initiating a signaling cascade that culminates in MAPK/ERK activation. Activates endothelial cells (ECs) in a proinflammatory manner by stimulating activation of NF-kappa-B and ERK, JNK and p38 MAP-kinases and by inducing expression of adhesion molecules including SELE and VCAM1. Induces apoptosis in ECs by promoting the FOXO1-dependent expression of CCL2 and BCL2L11 which are involved in EC chemotaxis and apoptosis. In response to oxidative stress, initiates proapoptotic and antiapoptotic signaling in ECs via activation of NF-kappa-B and AKT1 and up-regulation of antiapoptotic protein BCL2. Negatively regulates MAP3K5/ASK1 kinase activity, autophosphorylation and oxidative stress-induced apoptosis mediated by MAP3K5/ASK1. Necessary for the assembly of TARDBP in heterogeneous

nuclear ribonucleoprotein (hnRNP) complexes and regulates TARDBP binding to RNA UG repeats and TARDBP-dependent expression of HDAC6, ATG7 and VCP which are involved in clearance of protein aggregates. Plays an important role in platelet activation and aggregation. Regulates calcium mobilization and integrin ITGA2B:ITGB3 bidirectional signaling via increased ROS production as well as by facilitating the interaction between integrin and the cell cytoskeleton. Binds heparan sulfate glycosaminoglycans. Inhibits replication of influenza A virus (IAV). Inhibits ITCH/AIP4-mediated ubiquitination of matrix protein 1 (M1) of IAV by impairing the interaction of ITCH/AIP4 with M1, followed by the suppression of the nuclear export of M1, and finally reduction of the replication of IAV. (Microbial infection) May act as a mediator between human SARS coronavirus nucleoprotein and BSG/CD147 in the process of invasion of host cells by the virus. (Microbial infection) Stimulates RNA-binding ability of HCV NS5A in a peptidyl-prolyl cis-trans isomerase activity-dependent manner.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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