Anti-Human uPAR Antibody [PSH13-76] - BSA and Azide free (Capture)

HA601437

Product Type:	Mouse monoclonal IgG1, primary antibodies
Species reactivity:	Human
Applications:	ELISA(Cap)
Clone number:	PSH13-76

Description: This gene encodes the receptor for urokinase plasminogen activator and, given its role in localizing and promoting plasmin formation, likely influences many normal and pathological processes related to cell-surface plasminogen activation and localized degradation of the extracellular matrix. It binds both the proprotein and mature forms of urokinase plasminogen activator and permits the activation of the receptor-bound pro-enzyme by plasmin. The protein lacks transmembrane or cytoplasmic domains and may be anchored to the plasma membrane by a glycosyl-phosphatidylinositol (GPI) moiety following cleavage of the nascent polypeptide near its carboxy-terminus. However, a soluble protein is also produced in some cell types. Alternative splicing results in multiple transcript variants encoding different isoforms. The proprotein experiences several post-translational cleavage reactions that have not yet been fully defined. Acts as a receptor for urokinase plasminogen activator. Plays a role in localizing and promoting plasmin formation. Mediates the proteolysis-independent signal transduction activation effects of U-PA. It is subject to negative-feedback regulation by U-PA which cleaves it into an inactive form.

Immunogen: Recombinant protein within Human uPAR aa 23-303 (HA211102).

Positive control: Recombinant Human uPAR protein (HA211102).

Subcellular location: Cell membrane

Database links: SwissProt: Q03405 Human

Recommended Dilutions:

ELISA(Cap) Use at an assay dependent concentration. Can be paired for Sandwich ELISA with Rabbit monoclonal [PSH13-77] to Human uPAR antibody (Detector) (HA601438) and recombinant Human uPAR protein (HA211102) as the standard. The reference range value is 125-4,000 pg/mL.

Storage Buffer: 1*PBS (pH7.4).

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Images

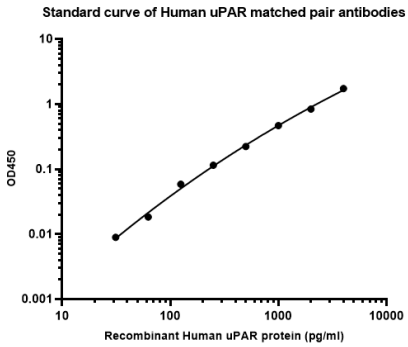

Fig1: Sandwich ELISA analysis of Human uPAR matched pair antibodies

Capture: HA601437, Human uPAR Rabbit mAb [PSH13-76]
Detector: HA601438, Human uPAR Rabbit mAb [PSH13-77]

Elisa assay was performed by coating wells of a 96-well plate with 100 µl per well of capture antibody (HA601437) diluted in carbonate/bicarbonate buffer, at a concentration of 5 µg/mL overnight at 4℃. Wells of the plate were washed, blocked with 150 µl 0.05% tween-20 1% BSA blocking buffer, and incubated with serial diluted Recombinant Human uPAR protein (HA211102) starting from 4,000 pg/ml to 0 pg/ml and detect antibody (HA601438, Biotin, 0.2 µg/ml) for 1 hour at 30℃ with shaking. Then the plate was washed and incubated with 100 µl per well of SA-HRP for 0.5 hour at 30℃ with shaking. Detection was performed using an Ultra TMB Substrate for 10 minutes at room temperature in the dark. The reaction was stopped with sulfuric acid and absorbances were read on a spectrophotometer at 450 nm.

Background References

1. Bass R., Werner F., Odintsova E., Sugiura T., Berditchevski F., Ellis V. Regulation of urokinase receptor proteolytic function by the tetraspanin CD82. J. Biol. Chem. 280:14811-14818 (2005)
2. Behrendt N., Jensen O.N., Engelholm L.H., Moertz E., Mann M., Danoe K. A urokinase receptor-associated protein with specific collagen binding properties. J. Biol. Chem. 275:1993-2002 (2000)