

Product datasheet

Recombinant Human PAG protein ab56521

1 References 2 Images

Overview

Product name	Recombinant Human PAG protein
Protein length	Protein fragment

Description

Nature	Recombinant
Source	Escherichia coli
Amino Acid Sequence	
Species	Human
Amino acids	41 to 432
Tags	His tag N-Terminus

Specifications

Our [Abpromise guarantee](#) covers the use of **ab56521** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Western blot
Purity	> 95 % SDS-PAGE. Purified by Immobilized Metal Affinity Chromatography used for purification of polyhistidine-tagged recombinant proteins. > 95% (by SDS-PAGE)
Form	Lyophilised

Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. pH: 8.00 Constituents: 0.164% Sodium phosphate, 0.58% Sodium chloride
Reconstitution	Reconstitute with 100 ul sterile deionized water. For long term storage or for preparation of more diluted working stock solution, a carrier protein (e.g. 1% serum albumin) should be added to the

vial.

General Info

Function

Negatively regulates TCR (T-cell antigen receptor)-mediated signaling in T-cells and FCER1 (high affinity immunoglobulin epsilon receptor)-mediated signaling in mast cells. Promotes CSK activation and recruitment to lipid rafts, which results in LCK inhibition. Inhibits immunological synapse formation by preventing dynamic arrangement of lipid raft proteins. May be involved in cell adhesion signaling.

Tissue specificity

Ubiquitously expressed. Present in germinal center B-cells, plasma cells, T-cells, monocytes and platelets (at protein level).

Post-translational modifications

Palmitoylated.

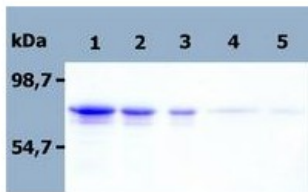
Phosphorylated by FYN on Tyr-317 in resting T-cells; which promotes interaction with CSK.

Dephosphorylated by PTPRC/CD45 upon TCR activation; which leads to CSK dissociation. May also be dephosphorylated by PTPN11. Hyperphosphorylated in mast cells upon FCER1 activation.

Cellular localization

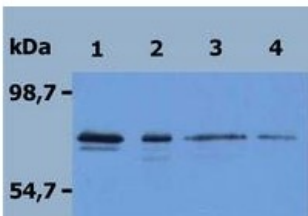
Cell membrane. Present in lipid rafts.

Images



SDS-PAGE - Recombinant Human PAG protein (ab56521)

SDS PAGE analysis of ab56521: 12% separating gel, 6% stacking gel; reducing conditions. Staining with Coomassie Blue. Lane 1-5: PAG recombinant protein (2 µg, 1 µg, 0.5 µg, 0.2 µg, 0.1 µg per lane).



Western blot - Recombinant Human PAG protein (ab56521)

Western Blot analysis of ab56521. Reducing conditions. Lane 1-4: immunostaining with specific anti PAG antibody. Detection with Goat anti-rabbit / HRP secondary antibody. Amount of PAG recombinant protein loaded on each lane: (1) 0.1 µg, (2) 0.050 µg, (3) 0.020 µg, (4) 0.010 µg.

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