

Anti-ANPEP Antibody (6Z293)

Product Details

Ig Type:	Mouse IgG2a
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	6Z293
Purification:	Affinity-chromatography

Applications

Verified Activity:	<p>1. Immunofluorescence staining of HEPG2 cell with TMAH-00062 at 1:100, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was FITC-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).</p> <p>2. Immunofluorescence staining of A549 cell with TMAH-00062 at 1:100, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was FITC-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).</p> <p>3. Overlay Peak curve showing 293 cells surface stained with TMAH-00062 (red line) at 1:100. Then 10% normal goat serum was incubated to block non-specific protein-protein interactions followed by the antibody (1µg/1*10⁶ cells) for 45 min at 4°C. The secondary antibody used was FITC-conjugated Goat Anti-Mouse IgG(H+L) at 1/200 dilution for 35 min at 4°C. Isotype control antibody (green line) was mouse IgG1 (1µg/1*10⁶ cells) used under the same conditions. Acquisition of >10,026 events was performed.</p>
Application:	ELISA,FCM,IF
Recommended	IF:1:20-1:200; FCM:1:20-1:200.

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:	Recombinant Protein: Human ANPEP Protein
Antigen Species:	Human
Gene ID:	290
Uniprot ID:	P15144
Synonyms:	LAP1;CD13;GP150;alanyl (membrane) aminopeptidase;P150;APN;PEPN
Biology Area:	Immunology, Stem cells

Research Background

Broad specificity aminopeptidase which plays a role in the final digestion of peptides generated from hydrolysis of

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proteins by gastric and pancreatic proteases. Also involved in the processing of various peptides including peptide hormones, such as angiotensin III and IV, neuropeptides, and chemokines. May also be involved the cleavage of peptides bound to major histocompatibility complex class II molecules of antigen presenting cells. May have a role in angiogenesis and promote cholesterol crystallization. May have a role in amino acid transport by acting as binding partner of amino acid transporter SLC6A19 and regulating its activity. (Microbial infection) Acts as a receptor for human coronavirus 229E/HCoV-229E. In case of human coronavirus 229E (HCoV-229E) infection, serves as receptor for HCoV-229E spike glycoprotein. (Microbial infection) Mediates as well Human cytomegalovirus (HCMV) infection.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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