

Anti-Aminopeptidase N/CD13 Antibody (8T409)

Product Details

Ig Type:	Mouse IgG1
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	8T409
Purification:	Protein A

Applications

Verified Activity:	<p>1. Anti-ANPEP mouse monoclonal antibody at 1:500 dilution.</p> <ul style="list-style-type: none">-Lane A: Jurkat Whole Cell Lysate.-Lane B: HepG2 Whole Cell lysate.-Lysates/proteins at 30 µg per lane.-Secondary-Goat Anti-Mouse IgG (H+L)/HRP at 1/10000 dilution.-Developed using the ECL technique.-Performed under reducing conditions.-Predicted band size:110 kDa.-Observed band size:140 kDa. <p>2. ANPEP-His was immunoprecipitated using:</p> <ul style="list-style-type: none">-Lane A:0.5 mg HEPG2 Whole Cell Lysate.-4 µL anti-ANPEP-His mouse monoclonal antibody and 60 µg of Immunomagnetic beads Protein A/G.-Primary antibody:-Anti-ANPEP-His mouse monoclonal antibody, at 1:100 dilution.-Secondary antibody:-Rabbit Anti-Mouse IgG F(ab)2/HRP at 1/10000 dilution.-Developed using the ECL technique.-Performed under reducing conditions.-Predicted band size: 150 kDa.-Observed band size:150 kDa
Application:	IP,WB
Recommended	WB: 1:500-1:2000; IP: 5-10 µL/mg of lysate

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein: Human CD13 /ANPEP Protein (TMPY-00665)

Antigen Species: Human

Synonyms: P150;AP-M;alanyl (membrane) aminopeptidase;AP-N;Cd13;Apn

Research Background

Aminopeptidase N (ANPEP or APN), also known as CD13, is a cell-surface metalloprotease located in the small-intestinal and renal microvillar membrane, as well as other plasma membranes. It belongs to the peptidase M1 family. CD13 plays a role in the final digestion of peptides generated from hydrolysis of proteins by gastric and pancreatic proteases and is involved in the metabolism of regulatory peptides by diverse cell types. CD13/APN is a potent regulator of angiogenesis which is essential for tumor invasion and metastasis, and its transcription in activated endothelial cells is induced by angiogenic growth factors via the RAS/MAPK pathway. In addition, this enzyme has been shown to participate in antigen processing and presentation, and accordingly, defects in this gene appear to be a cause of various types of leukemia or lymphoma and carcinomas.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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