Data Sheet (Cat.No.TMAC-00653)

Anti-Aminopeptidase N/CD13 Antibody (3J107)

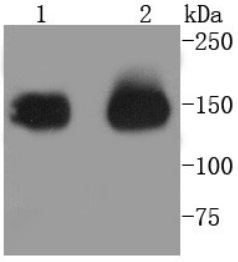
Product Details

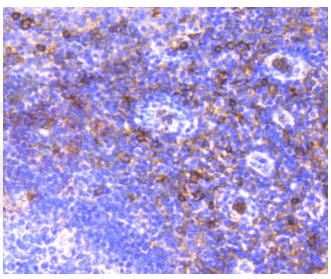
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 150 kDa.
Clone:	3J107
Purification:	ProA affinity purified

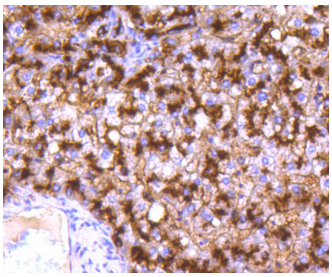
Applications

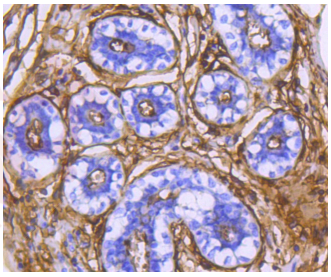
Verified Activity:

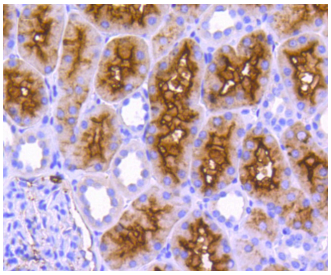
1. Western blot analysis of CD13 on different lysates using anti-CD13 antibody at 1/1,000 dilution. Positive control: Lane 1: THP-1, Lane 2: Human kidney.
2. Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-CD13 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-CD13 antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded human breast tissue using anti-CD13 antibody. Counter stained with hematoxylin.
5. Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-CD13 antibody. Counter stained with hematoxylin.
6. Immunohistochemical analysis of paraffin-embedded mouse pancreas tissue using anti-CD13 antibody. Counter stained with hematoxylin.
7. ICC staining CD13 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS
8. ICC staining CD13 in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
9. ICC staining CD13 in PANC-1 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

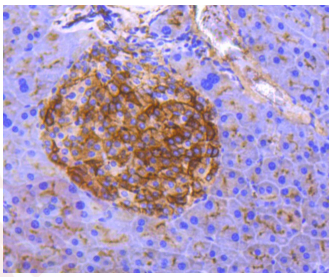


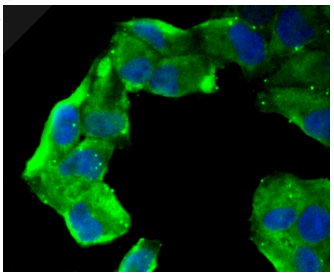


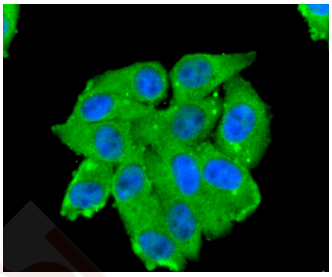


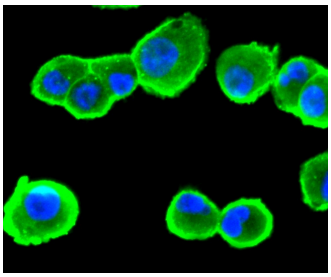












Application: ICC,IHC,IP,WB

Recommended: WB: 1:1000-5000; IHC: 1:100-500; ICC: 1:100-500

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

Uniprot ID: P15144

Synonyms: PEPN;LAP1;APN;GP150;p150;alanyl (membrane) aminopeptidase;CD13

Research Background

CD13, or aminopeptidase N, is a type II transmembrane glycoprotein that is expressed on most cells of Myeloid origin, including monocytes, basophils, eosinophils, neutrophils and Myeloid leukemias. CD13 is also found on certain epithelial cells, fibroblasts and osteoclasts. CD13 acts as a zinc-binding metalloprotease that plays a role in digestion and may function in the inactivation of some regulatory peptides such as enkephalins. CD13 may play a role in the invasion of cancer cells by enhancing their invasive capacity and metastatic behavior. The activity of CD13 can be inactivated using specific inhibitors that evoke apoptosis of CD13-positive cancer cells. Basic fibroblast growth factor (bFGF) expression upregulates CD13 expression in human melanoma cells by activating both the Myeloid and the epithelial CD13 promoter.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481