

Anti-Aminopeptidase N/CD13 Antibody (3U499)

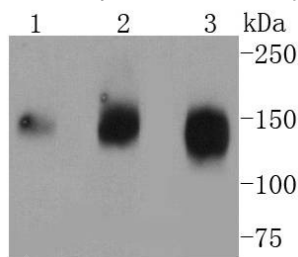
Product Details

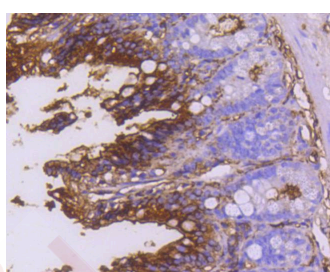
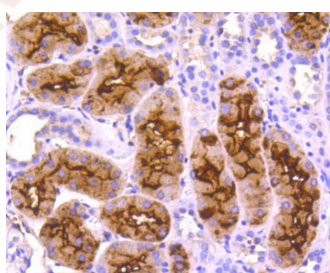
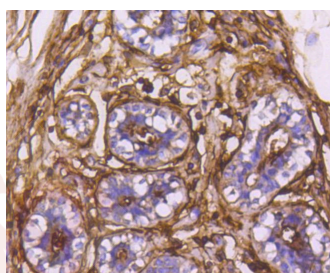
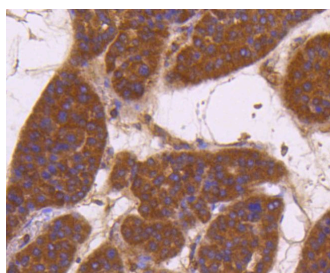
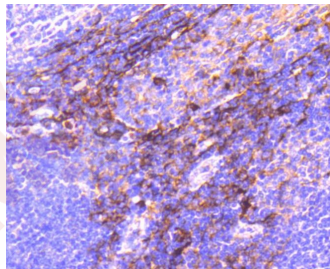
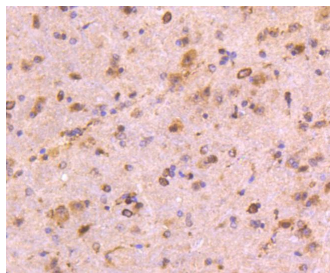
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 150 kDa.
Clone:	3U499
Purification:	ProA affinity purified

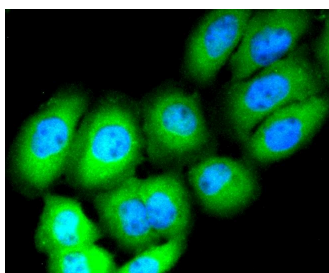
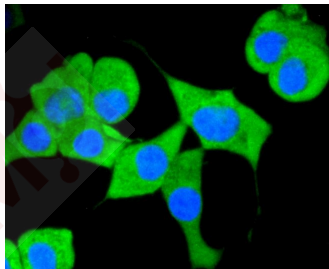
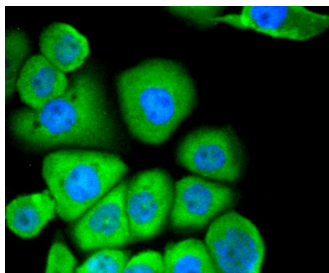
Applications

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 heart Lane 3: U937.
2. Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-CD13 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-CD13 antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded human liver cancer tissue using anti-CD13 antibody. Counter stained with hematoxylin.
5. Immunohistochemical analysis of paraffin-embedded human breast tissue using anti-CD13 antibody. Counter stained with hematoxylin.
6. Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-CD13 antibody. Counter stained with hematoxylin.
7. Immunohistochemical analysis of paraffin-embedded mouse colon tissue using anti-CD13 antibody. Counter stained with hematoxylin.
8. ICC staining CD13 in AGS 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 SHG-44 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
10. ICC staining CD13 in LO2 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: 1:50-200; 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: p150;LAP1;CD13;alanyl (membrane) aminopeptidase;APN;GP150;PEPN

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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