Data Sheet (Cat.No.TMAC-02574)

Anti-METAP2 Antibody (2D279)

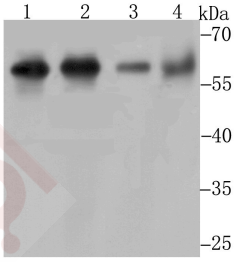
Product Details

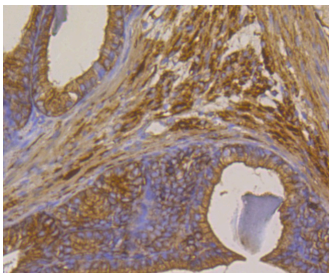
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 53 kDa.
Clone:	2D279
Purification:	ProA affinity purified

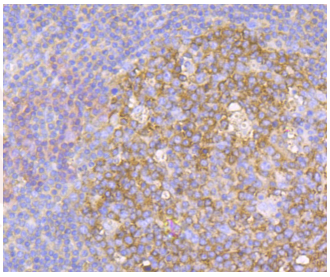
Applications

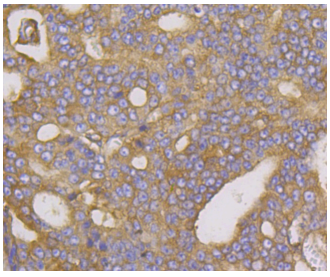
Verified Activity:

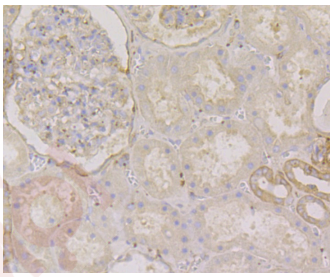
1. Western blot analysis of Methionine Aminopeptidase 2 on Hela cell using anti-Methionine Aminopeptidase 2 antibody at 1/1,000 dilution. Positive control: Lane 1: Daudi, Lane 2: K562, Lane 3: Mouse thymus, Lane 4: Mouse kidney.
2. Immunohistochemical analysis of paraffin-embedded rat seminal vesicle tissue using anti-Methionine Aminopeptidase 2 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-Methionine Aminopeptidase 2 antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue using anti-Methionine Aminopeptidase 2 antibody. Counter stained with hematoxylin.
5. Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-Methionine Aminopeptidase 2 antibody. Counter stained with hematoxylin.
6. Immunohistochemical analysis of paraffin-embedded mouse testis tissue using anti-Methionine Aminopeptidase 2 antibody. Counter stained with hematoxylin.
7. ICC staining Methionine Aminopeptidase 2 in LOVO cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
8. ICC staining Methionine Aminopeptidase 2 in PC-3M cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
9. ICC staining Methionine Aminopeptidase 2 in SH-SY-5Y cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
10. Flow cytometric analysis of Daudi cells with Methionine Aminopeptidase 2 antibody at 1/100 dilution (purple) compared with an unlabelled control (cells without incubation with primary antibody; yellow). Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary antibody.

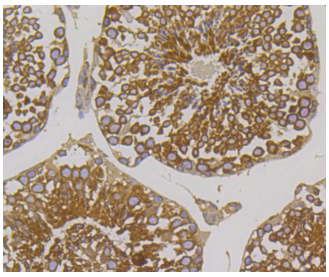


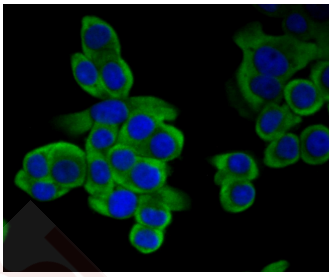


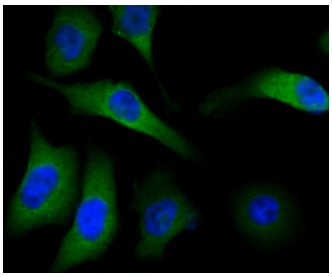


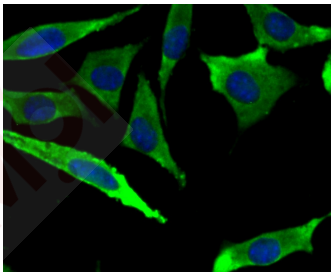


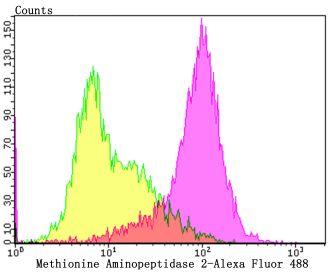












Application: FCM,ICC,IF,IHC,WB

Recommended: WB: 1:500-2000; IHC: 1:50-200; ICC:IF: 1:50-200; FCM: 1:50-100

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: within C-terminal human Methionine Aminopeptidase 2

Antigen Species: human

Uniprot ID: P50579

Synonyms: MAP2;methionyl aminopeptidase 2;p67;p67eIF2;MNPEP

Research Background

Methionine aminopeptidases (MetAP), also designated peptidase M proteins, are members of the M24 family of proteins. Both MetAP-1 and MetAP-2 release N-terminal amino acids, usually methionine, from nascent peptides and arylamines. Eukaryotes contain both MetAP-1 and MetAP-2, whereas prokaryotes possess only the MetAP-1 enzyme. MetAP-1 and MetAP-2 control cell proliferation in mammalian cells. MetAP-2 is highly conserved between human and Saccharomyces cerevisiae. Neurofibromin (NF1) regulates MetAp-2 and increased expression of MetAP-2 correlates with several forms of cancer. Inhibitors of MetAP-2 are potential targets in cancer therapeutics, particularly in NF1-associated tumor proliferation. Chemotherapeutic drugs such as ovalicin and fumagillin bind to the active site of and inhibit MetAp-2.

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