

Rabbit Anti-ENT2 antibody

SL10550R

Product Name ENT2

Chinese Name 核苷 TransporterENT2 抗体

Alias

DER12; Equilibrative NBMPR-insensitive nucleoside transporter; Equilibrative nitrobenzylmercaptapurine riboside-insensitive nucleoside transporter; Equilibrative nucleoside transporter 2; HNP36; Hydrophobic nucleolar protein, 36 kDa; SLC29A2; solute carrier family 29 (nucleoside transporters), member 29; Solute carrier family 29 member 2; S29A2_HUMAN.

Research Area

Tumour Cell biology Neurobiology

Immunogen Species

Rabbit

Clonality

Polyclonal

React Species Mouse, Rat, (predicted: Human,)

WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair)

Applications

not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight

50kDa

Cellular localization

The nucleus The cell membrane

Form

Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human ENT2: 221-320/456

Lsotype

IgG

Purification

affinity purified by Protein A

Buffer Solution

1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Storage

Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention

This product as supplied is intended for research use only, not for use in human,

therapeutic or diagnostic applications.

PubMed

[PubMed](#)

The uptake of nucleosides by transporters, such as SLC29A2, is essential for nucleotide synthesis by salvage pathways in cells that lack de novo biosynthetic pathways. Nucleoside transport also plays a key role in the regulation of many physiologic processes through its effect on adenosine concentration at the cell surface (Griffiths et al., 1997 [PubMed 9396714]).[supplied by OMIM, Nov 2008]

Function:

ENT2 mediates equilibrative transport of purine, pyrimidine nucleosides and the purine base hypoxanthine. It is less sensitive than ENT1 to inhibition by nitrobenzylthioinosine (NBMPR), dipyridamole, dilazep and draflazine.

Subcellular Location:

Basolateral cell membrane; Multi-pass membrane protein. Nucleus membrane; Multi-pass membrane protein. Note=Localized at the basolateral cell membrane in polarized MDCK cells.

Tissue Specificity:

Expressed in skeletal muscle, liver, lung, placenta, brain, heart, kidney and ovarian tissues.

Product Detail

Similarity:

Belongs to the SLC29A/ENT transporter (TC 2.A.57) family.

SWISS:

Q14542

Gene ID:

3177

Database links:

[Entrez Gene: 3177](#) Human

[Entrez Gene: 13340](#) Mouse

[Entrez Gene: 65194](#) Rat

[Omim: 602110](#) Human

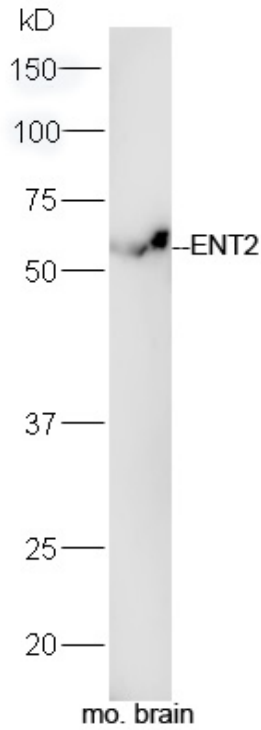
[SwissProt: Q14542](#) Human

[SwissProt: Q61672](#) Mouse

[SwissProt: Q9JIT8](#) Mouse

[SwissProt: O54699](#) Rat

**Product
Picture**



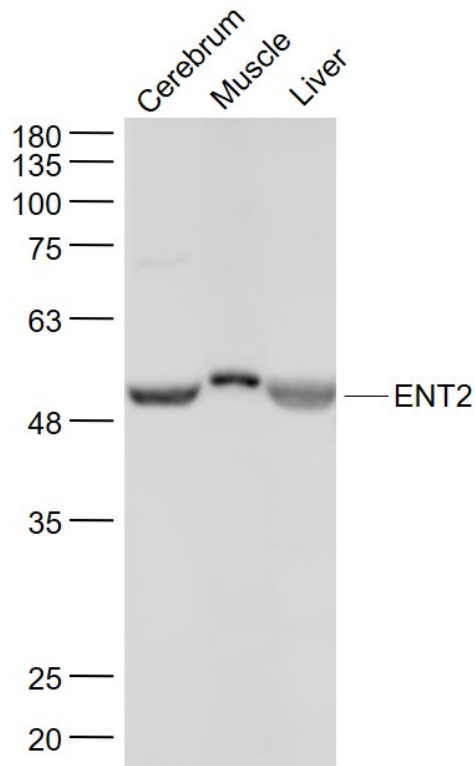
Protein: brain(mouse) lysate at 40ug;

Primary: rabbit Anti-ENT2 (SL10550R) at 1:300;

Secondary: HRP conjugated Goat-Anti-rabbit IgG(SL0295G-HRP) at 1: 5000;

Predicted band size: 50 kD

Observed band size: 55 kD



Sample:

Cerebrum (Mouse) Lysate at 40 ug

Muscle (Mouse) Lysate at 40 ug

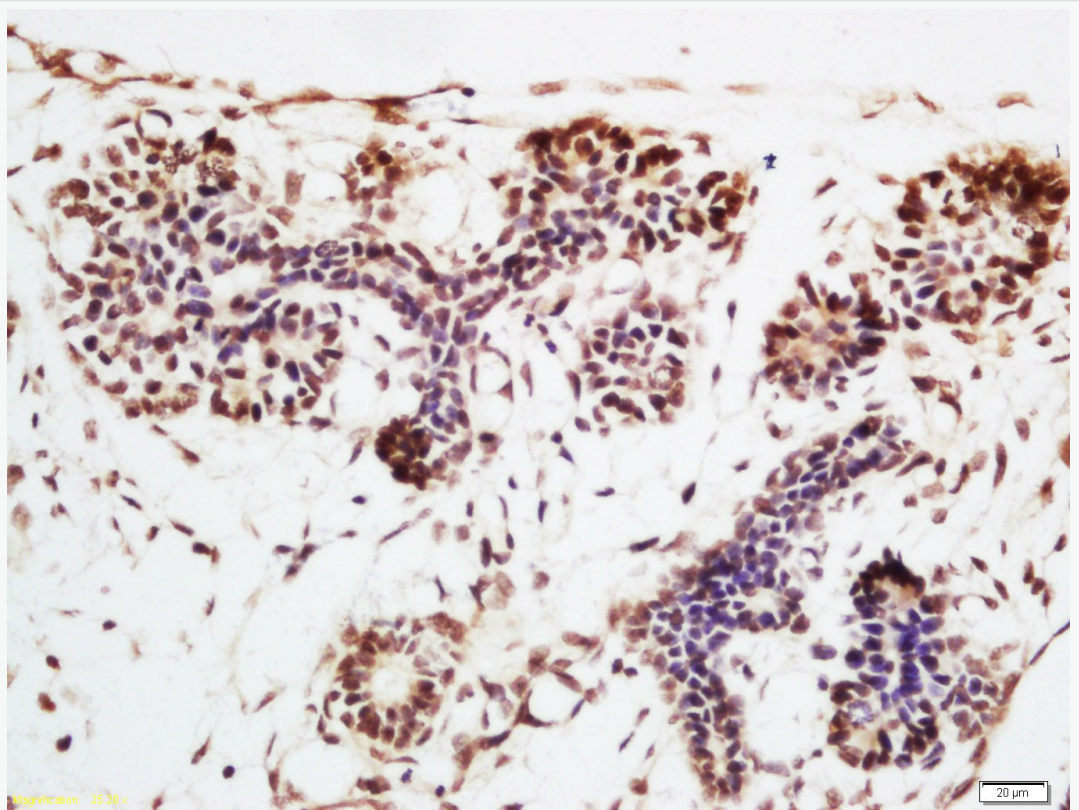
Liver (Mouse) Lysate at 40 ug

Primary: Anti- ENT2 (SL10550R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

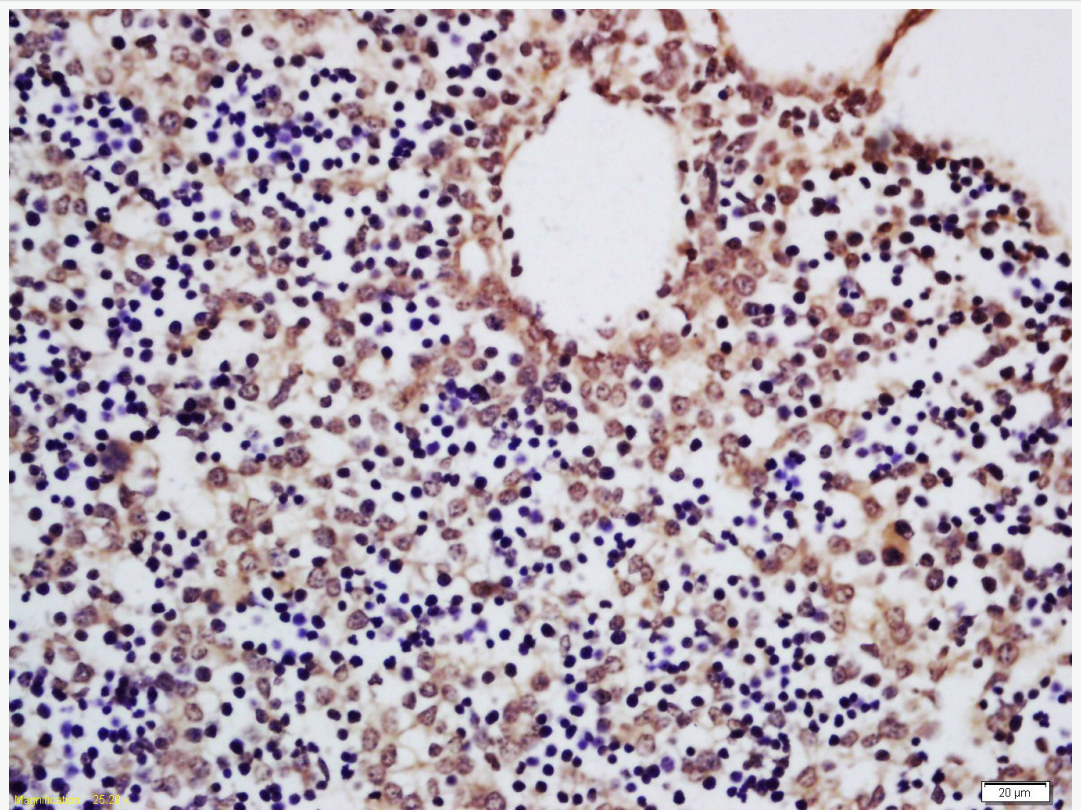
Predicted band size: 50 kD

Observed band size: 50 kD



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block
endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer
(normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-ENT2 Polyclonal Antibody, Unconjugated(SL10550R) 1:200,
overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023)
and DAB(C-0010) staining



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