



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.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	50kDa
Cellular localization:	The nucleusThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human ENT2:221-320/456
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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.

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

[Ommim: 602110](#)Human

[SwissProt: Q14542](#)Human

[SwissProt: Q61672](#)Mouse

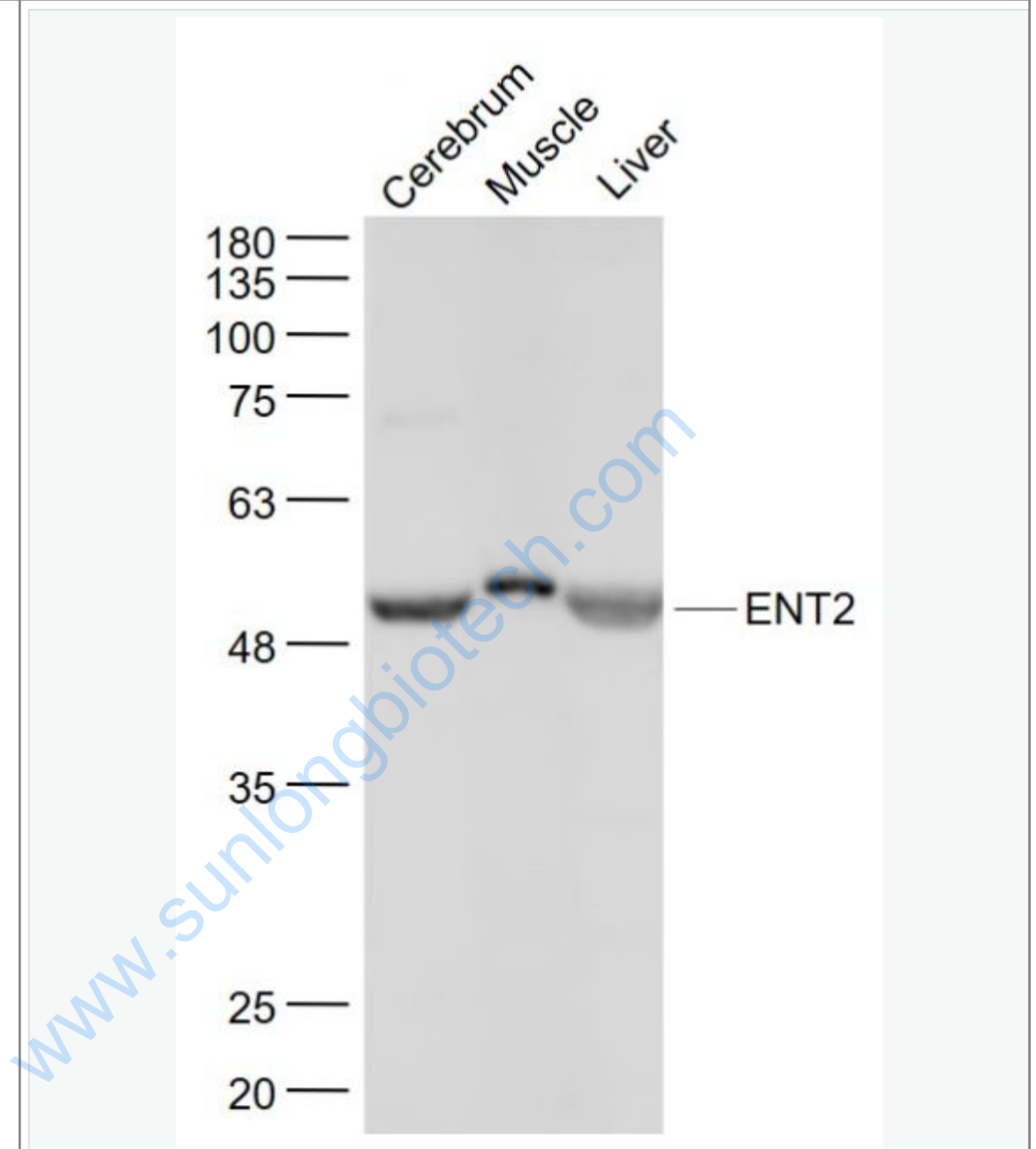
[SwissProt: Q9JIT8](#)Mouse

[SwissProt: O54699](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

Cerebrum (Mouse) Lysate at 40 ug

Muscle (Mouse) Lysate at 40 ug

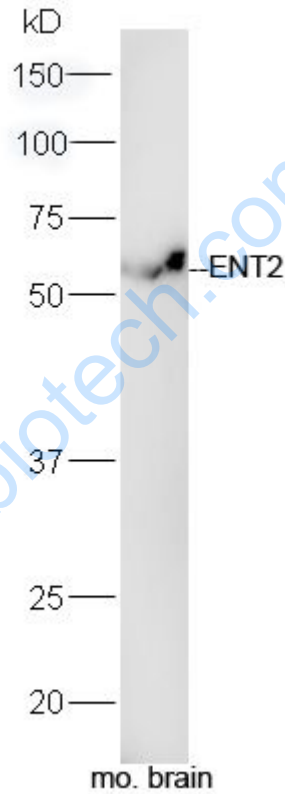
Liver (Mouse) Lysate at 40 ug

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



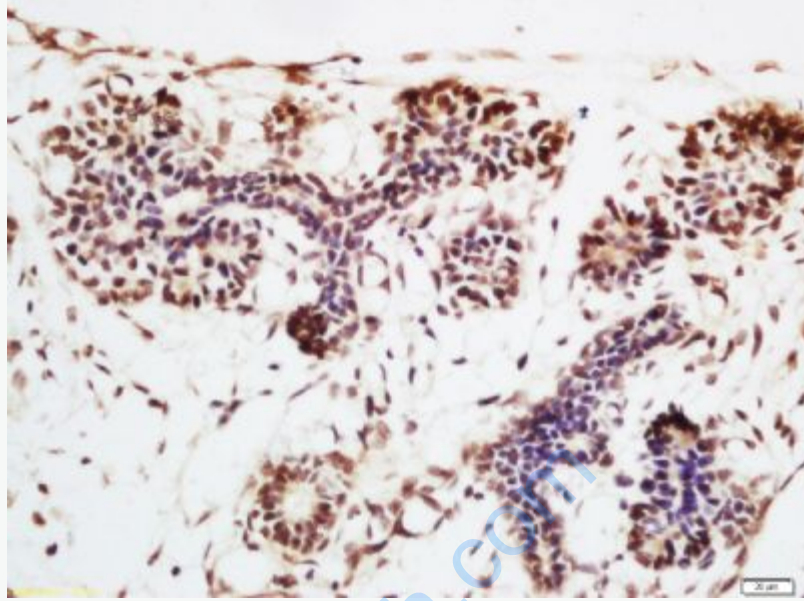
Protein: brain(mouse) lysate at 40ug;

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

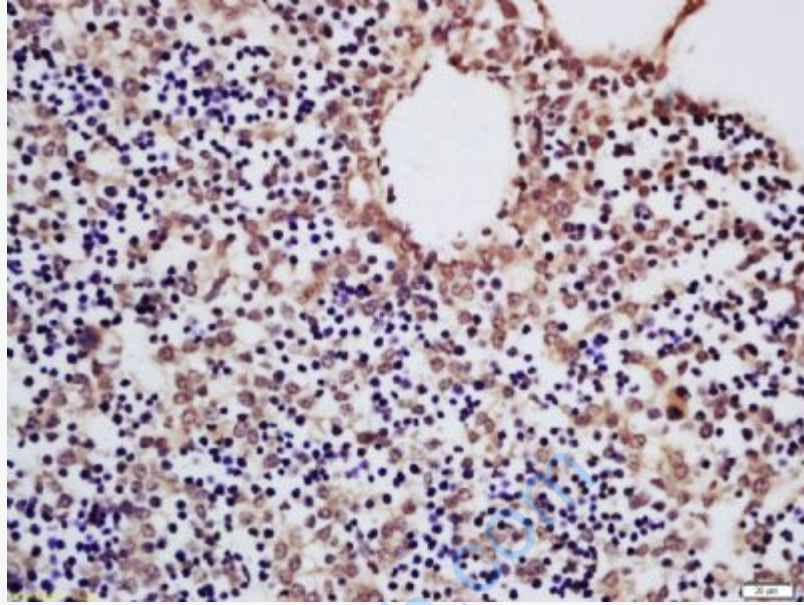
Secondary: HRP conjugated Goat-Anti-rabbit IgG(SL10550R) at 1: 5000;

Predicted band size: 50 kD

Observed band size: 55 kD



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, 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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