



Rabbit Anti-ENPP6 antibody

SL13076R

Product Name:	ENPP6
Chinese Name:	磷酸酶/磷酸二酯酶家族成员6抗体
Alias:	B830047L21Rik; E-NPP 6; Ectonucleotide pyrophosphatase/phosphodiesterase 6; ectonucleotide pyrophosphatase/phosphodiesterase family member 6; ENPP 6; NPP 6; NPP6; ENPP6_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,
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:	46kDa
Cellular localization:	The cell membraneSecretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human ENPP6:251-350/440
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:	NPP6 is a 440 amino acid member of the nucleotide pyrophosphatase/phosphodiesterase family. NPP6 is a secreted and single-pass type I membrane protein. Predominantly expressed in brain and kidney, NPP6 is a choline-specific glycerophosphodiester phosphodiesterase. NPP6 can hydrolyze the classical substrate for phospholipase C, p-nitrophenyl phosphorylcholine, glycerophosphorylcholine, sphingosylphosphorylcholine

and lysophosphatidylcholine (LPC). NPP6 has been found to have a preference for LPC with polyunsaturated or short fatty acids. The gene encoding NPP6 maps to human chromosome 4, which consists of approximately 6% of the human genome and nearly 900 genes. Chromosome 4 is associated with Huntington's disease, FGFR-3, Ellis-van Creveld syndrome, methylmalonic acidemia and polycystic kidney disease.

Function:

ENPP6 is a choline-specific glycerophosphodiester phosphodiesterase, which hydrolyzes the classical substrate for phospholipase C, p-nitrophenyl phosphorylcholine, while it does not hydrolyze the classical nucleotide phosphodiesterase substrate, p-nitrophenyl thymidine 5 prime-monophosphate. It hydrolyzes lysophosphatidylcholine (LPC) to form monoacylglycerol and phosphorylcholine but not lysophosphatidic acid, showing it has a lysophospholipase C activity. ENPP6 has a preference for LPC with short (12:0 and 14:0) or polyunsaturated (18:2 and 20:4) fatty acids. ENPP6 also hydrolyzes glycerophosphorylcholine and sphingosylphosphorylcholine efficiently. ENPP6 is predominantly expressed in kidney and brain.

Subunit:

Homodimer; disulfide-linked.

Subcellular Location:

Cell membrane; Single-pass type I membrane protein. Secreted. Note: A minor secreted form also exists.

Tissue Specificity:

Predominantly expressed in kidney and brain. In the kidney, expressed specifically in the proximal tubules and thin descending limbs of Henle (at protein level).

Similarity:

Belongs to the nucleotide pyrophosphatase/phosphodiesterase family.

SWISS:

Q6UWR7

Gene ID:

133121

Database links:

[Entrez Gene: 133121](#)Human

[Entrez Gene: 320981](#)Mouse

[Entrez Gene: 306460](#)Rat

[SwissProt: Q6UWR7](#)Human

[SwissProt: Q8BGN3](#)Mouse

[SwissProt: B0BND0](#)Rat

[Unigene: 297814](#)Human

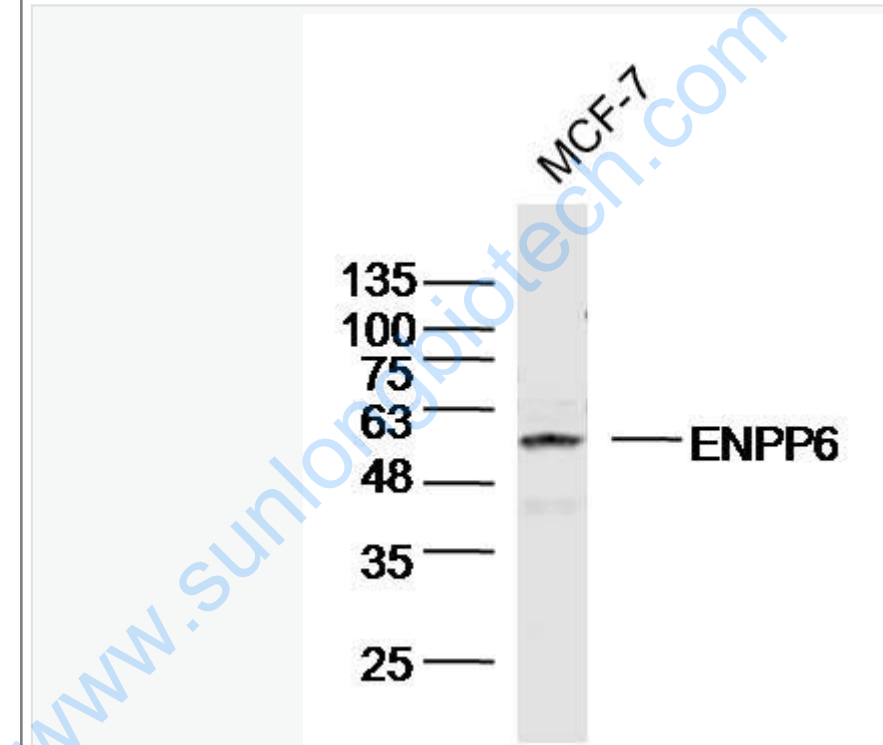
[Unigene: 211429](#)Mouse

[Unigene: 8484](#)Rat

Important Note:

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

Picture:



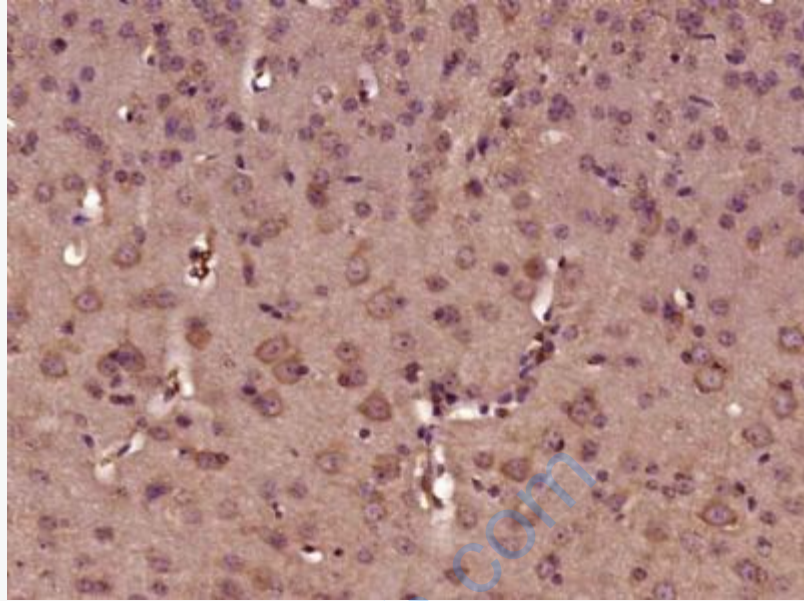
Sample: MCF-7 Cell (Human) Lysate at 40 ug

Primary: Anti-ENPP6(SL13076R) at 1/300 dilution

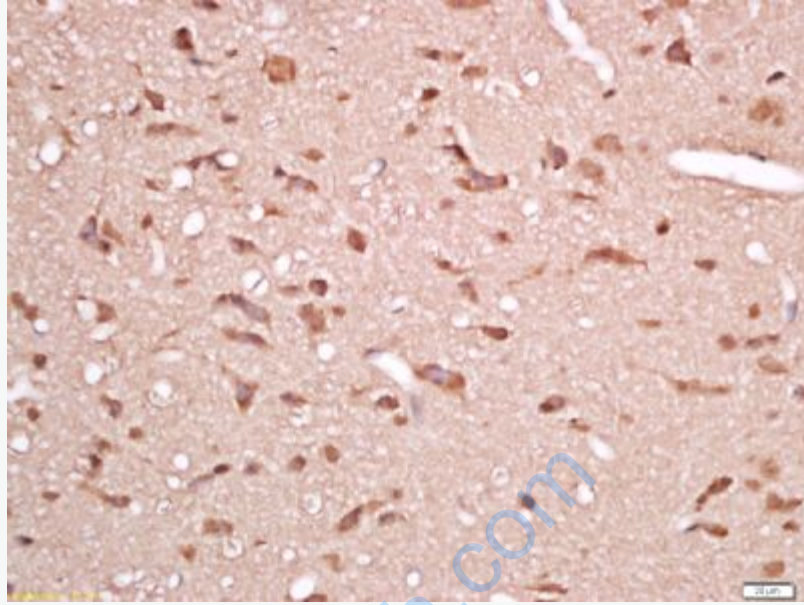
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 46kD

Observed band size: 50kD



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (ENPP6) Polyclonal Antibody, Unconjugated (SL13076R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



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-ENPP6 Polyclonal Antibody, Unconjugated(SL13076R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining