



## Rabbit Anti-D4S234E antibody

SL8204R

<b>Product Name:</b>	D4S234E
<b>Chinese Name:</b>	NEEP21蛋白抗体
<b>Alias:</b>	NSG1_HUMAN; Brain neuron cytoplasmic protein 1; Brain specific mRNA b; Bsmrb; Neuron-specific gene family member 1; Neuron-specific protein family member 1; NSG1; D4S234; NEEP21; P21.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,Sheep,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:50-200 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	21kDa
<b>Cellular localization:</b>	cytoplasmicThe cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human NEEP21:1-100/185
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	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.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	NEEP21, also known as Brain neuron cytoplasmic protein 1, NSG1 (neuron-specific proteins family member 1), P21 or D4S234E, is a single pass type II membrane protein belonging to the NSG family. It is highly expressed during neuronal maturation but its expression is downregulated in adult tissues. NEEP21 predominantly localizes to Rab 4-positive early endosomes in the somatodendritic neuronal compartment and is essential

for proper receptor sorting and recycling in neurons. It associates with GRIP1 and GluR-2 and mediates the surface expression of GluR-2. When this interaction is interrupted, GluR-2 accumulates in early endosomes and leads to changes in evoked synaptic current properties. In addition, NEEP21 forms a complex with the SNARE protein, Syntaxin 13 (also known as Syntaxin 12), and participates in the recycling of transferrin receptors (TFRs) and NTR2 (neurotensin receptor 2).

**Subcellular Location:**

Golgi apparatus membrane; Single-pass type II membrane protein (Potential).

**Similarity:**

Belongs to the NSG family.

**SWISS:**

P42857

**Gene ID:**

27065

**Database links:**

[Entrez Gene: 27065](#)Human

[Entrez Gene: 18196](#)Mouse

[Entrez Gene: 25247](#)Rat

[Oimim: 607645](#)Human

[SwissProt: P42857](#)Human

[SwissProt: Q62092](#)Mouse

[SwissProt: P02683](#)Rat

[Unigene: 518595](#)Human

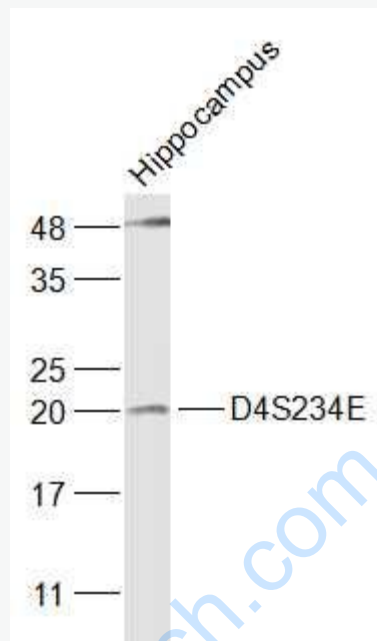
[Unigene: 7414](#)Mouse

[Unigene: 2865](#)Rat

**Important Note:**

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

Picture:



Sample:

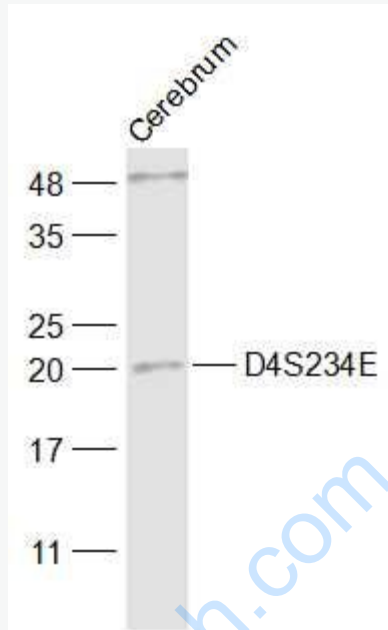
Hippocampus (Mouse) Lysate at 40 ug

Primary: Anti-D4S234E (SL8204R) at 1/1000 dilution

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

Predicted band size: 21 kD

Observed band size: 21 kD



Sample:

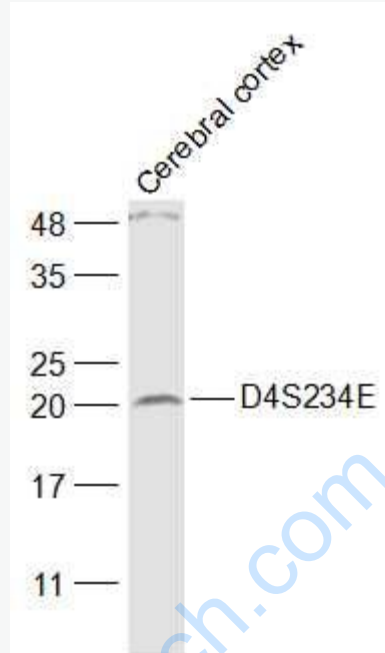
Cerebrum (Mouse) Lysate at 40 ug

Primary: Anti-D4S234E (SL8204R) at 1/1000 dilution

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

Predicted band size: 21 kD

Observed band size: 21 kD



Sample:

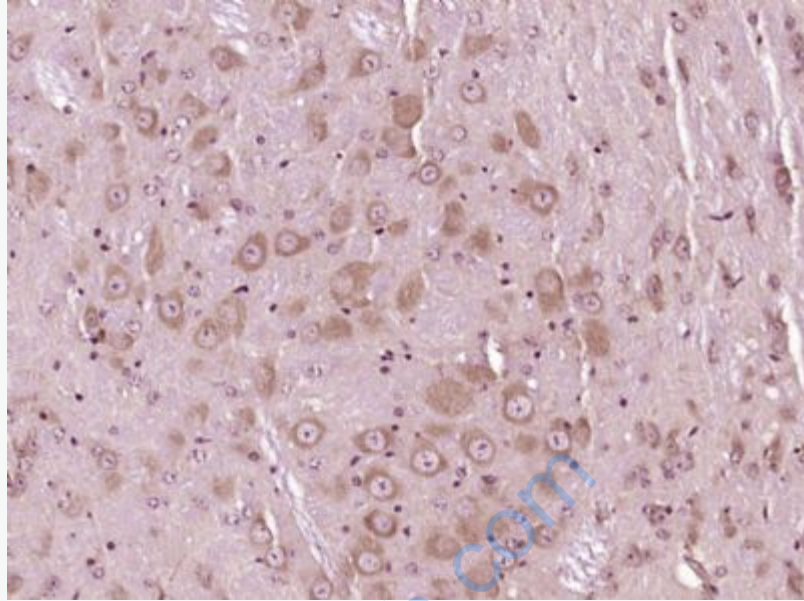
Cerebral cortex (Mouse) Lysate at 40 ug

Primary: Anti-D4S234E (SL8204R) at 1/1000 dilution

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

Predicted band size: 21 kD

Observed band size: 21 kD



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 (D4S234E) Polyclonal Antibody, Unconjugated (SL8204R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.