



## Rabbit Anti-NR2E1 antibody

SL23116R

<b>Product Name:</b>	NR2E1
<b>Chinese Name:</b>	核受体蛋白NR2E1抗体
<b>Alias:</b>	NR2E1 / Tailless; Tailless; hTll; nr2e1; NR2E1_HUMAN; Nuclear receptor subfamily 2 group E member 1; Nuclear receptor TLX; Orphan nuclear receptor NR2E1; Protein tailless homolog; Tailless homolog; Tll; TLX; XTLL.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Pig,Cow,Rabbit,
<b>Applications:</b>	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.
<b>Molecular weight:</b>	43kDa
<b>Cellular localization:</b>	The nucleus
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human NR2E1:151-250/451
<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>	NR2 proteins are a large family of nuclear hormone receptor transcription factors. The proteins belonging to this family are characterized by discrete domains functioning in DNA and ligand binding. NR2E1 (nuclear receptor subfamily 2, group E, member 1), also known as TLX, is an essential component in the formation of synaptic plasticity and dendritic structure in retinal astrocytes. In addition, NR2E1 is a orphan receptor that

binds DNA as part of the hormone response element (HRE), a transcription regulator for hormones. DNA-binding orphan receptors have the conserved sequence 5'-AAGGTCA-3', a motif that determines substrate binding specificity. NR2E1 is expressed in brain tissue, with highest levels in astrocytes, and is localized to the nucleus. Mutations in the gene that encodes NR2E1 may lead to retinal dystrophy, a disorder characterized by a reduction in the thickness of the retina.

**Function:**

Orphan receptor that binds DNA as a monomer to hormone response elements (HRE) containing an extended core motif half-site sequence 5'-AAGGTCA-3' in which the 5' flanking nucleotides participate in determining receptor specificity. May be required for brain development. May be involved in the regulation of retinal development.

**Subunit:**

Monomer (By similarity). Interacts with ATN1; the interaction represses the transcription

**Subcellular Location:**

Nucleus.

**Tissue Specificity:**

Brain specific. Present in all brain sections tested, highest levels in the caudate nucleus and hippocampus, weakest levels in the thalamus.

**Similarity:**

Belongs to the nuclear hormone receptor family. NR2 subfamily. Contains 1 nuclear receptor DNA-binding domain.

**SWISS:**

Q9Y466

**Gene ID:**

7101

**Database links:**

[Entrez Gene: 7101](#)Human

[Entrez Gene: 21907](#)Mouse

[Entrez Gene: 684085](#)Rat

[Omim: 603849](#)Human

[SwissProt: Q91379](#)Chicken

[SwissProt: Q9Y466](#)Human

[SwissProt: Q3UXE8](#)Mouse

[SwissProt: Q64104](#)Mouse

[SwissProt: Q78ZM1](#)Mouse

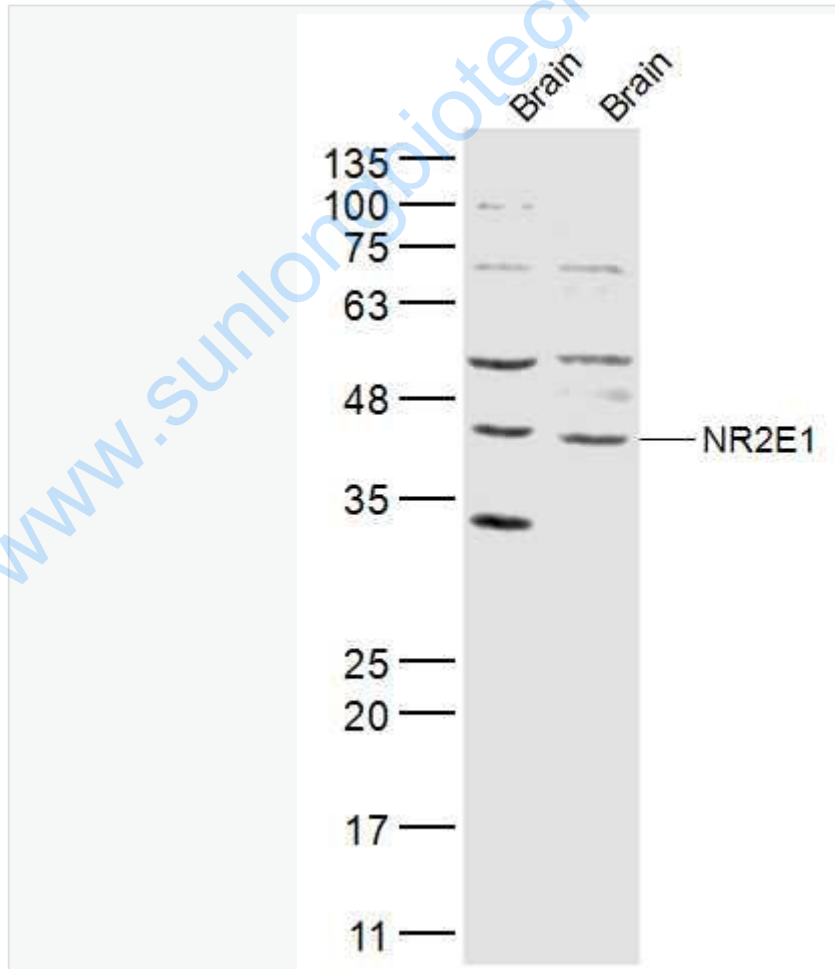
[Unigene: 157688](#)Human

[Unigene: 287100](#)Mouse

**Important Note:**

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

Picture:



Sample:

Brain (Mouse) Lysate at 40 ug

Brain (Rat) Lysate at 40 ug

Primary: Anti-NR2E1 (SL23116R) at 1/300 dilution

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

Predicted band size: 43 kD

Observed band size: 43 kD

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