SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-NR2E1 antibody

Catalog Number: SL23116R

FOR RESEARCH USE ONLY

[DATASHEET]

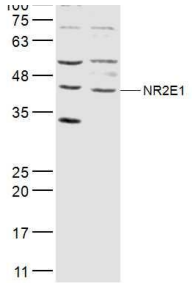
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	NR2E1
Immunogen:	KLH conjugated synthetic peptide derived from human NR2E1: 151-250/451
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse, Rat, (predicted: Human, Dog, Pig, Cow, Rabbit)
Predicted MW.:	43kDa
Subcellular Location:	The nucleus
Background:	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

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

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	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. **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

[VALIDATION IMAGES]



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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