SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-NET1 antibody

Catalog Number: SL6331R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	NET1
Immunogen:	KLH conjugated synthetic peptide derived from human NET1: 501-596/596
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 IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 Flow-Cyt=2ug/Test （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse(predicted:Rat,Chicken,Dog,Cow,Horse)
Predicted MW.:	65kDa
Subcellular Location:	The nucleus cytoplasmic
Background:	Catecholamine, a term used for the hormone adrenaline and its sequentially hydroxylated form noradrenaline, is involved in fight or flight responses. Noradrenaline is released from the post ganglionic sympathetic nerve endings and exerts its effects locally in the immediate vicinity of its release. In the CNS, noradrenaline is involved in a number of physiological responses including mood, sleep regulation, alertness and arousal, both cognitive and non-cognitive expression of behaviors, and control of the endocrine and autonomic nervous systems. Peripherally, noradrenaline is present in sympathetic nerve endings and has full control of the sympathetic nervous system. Noradrenaline released from pre-synaptic nerve terminals is reabsorbed (70-90%) by noradrenaline

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	transporters and its biological effects are terminated. The noradrenaline transport via noradrenaline transporters is an active, Na+/Cl- dependent transport process mediated by noradrenaline transporters. Noradrenaline transporters constitute the primary mechanism for inactivation of synaptically released noradrenaline, are targets for multiple antidepressants and psychostimulants, and are deficient in affective and autonomic disorders. In rat brain, noradrenaline transporter is expressed in noradrenergic neuronal somata, axons and dendrites, and hippocampus and cortex, but is absent from epinephrine- and dopamine-containing neurons. At least 13 genetic variations have been reported in the noradrenaline transporter protein that affect noradrenaline re-uptake and concentrations in cerebrospinal fluid in humans. The association between these genetic variations in noradrenaline transporters and several psychiatric and cardiovascular disorders is just emerging. Recently, a single amino acid mutation (hNET-A457P) showed deficiency in noradrenaline transport in an orthostatic intolerance patient. Noradrenaline transporter protein consists of 617 amino acids and has 12 trans-membrane domains, a characteristic feature of many membrane associated solute transporters. **Function:** Acts as guanine nucleotide exchange factor (GEF) for RhoA GTPase. May be involved in activation of the SAPK/JNK pathway Stimulates genotoxic stress-induced RHOB activity in breast cancer cells leading to their cell death. **Subunit:** Interacts with RHOA in its GTP- and GDP-bound states, and with CDC42 in its GTP-bound state. Interacts with the PDZ 1 domain of BAIAP1. **Subcellular Location:** Cytoplasm. Nucleus. **Tissue Specificity:** Widely expressed. **Similarity:** Contains 1 DH (DBL-homology) domain. Contains 1 PH domain. **Database links:** **Entrez Gene:** 416693 Chicken **Entrez Gene:** 487147 Dog **Entrez Gene:** 10276 Human **Entrez Gene:** 56349 Mouse **Entrez Gene:** 307098 Rat **SwissProt:** Q7Z628 Human **SwissProt:** Q9Z206 Mouse **Unigene:** 25155 Human **Unigene:** 22261 Mouse

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[VALIDATION IMAGES]

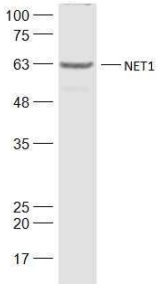


Figure 1. Sample: Jurkat(Human) Cell Lysate at 30 ug Primary: Anti-NET1 (SL6331R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 65 kD Observed band size: 65 kD

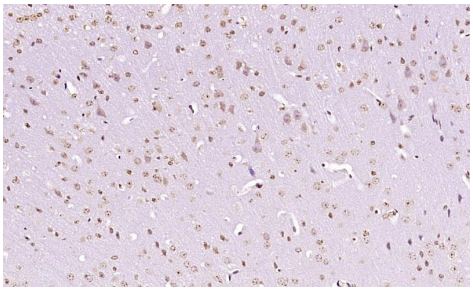


Figure 2. Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (NET1) Polyclonal Antibody, Unconjugated (SL6331R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining

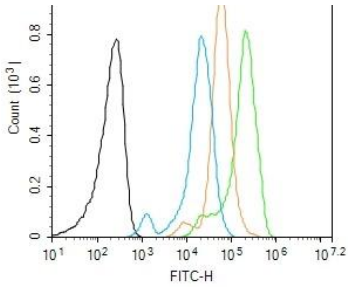


Figure 3. Blank control (black line) :HepG2. Primary Antibody (green line): Rabbit Anti-NET1 antibody (SL6331R) Dilution:2ug/Test; Secondary Antibody (white blue line) : Goat anti-rabbit IgG-FITC Dilution: 0.5ug/Test. Isotype control (orange line) : Normal Rabbit IgG Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at -20℃, The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature.Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed

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