SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-NIRF antibody

Catalog Number: SL6389R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	NIRF
Immunogen:	KLH conjugated synthetic peptide derived from human NIRF: 15-100/802
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:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted: Human, Mouse, Rat, Dog, Cow)
Predicted MW.:	90kDa
Subcellular Location:	The nucleus
Background:	E3 ubiquitin-protein ligase which mediates ubiquitination and subsequent proteasomal degradation of PCNP. May participate in methylation-dependent transcriptional regulation. Important for G1/S transition. Overexpression causes G1 phase cell arrest. **Function:** E3 ubiquitin-protein ligase that is an intermolecular hub protein in the cell cycle network. Through cooperative DNA and histone binding, may contribute to a tighter epigenetic control of gene expression in differentiated cells. Ubiquitinates cyclins, CCND1 and CCNE1, in an apparently phosphorylation-independent manner and induces G1 arrest. Also ubiquitinates PCNP leading to its degradation by the proteasome. E3 SUMO-, but not ubiquitin-, protein ligase for ZNF131. **Subunit:** Homodimer; disulfide-linked. Binds methylated CpG containing

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	oligonucleotides. Interacts with H3: the interaction has a preference for the 'Lys-9' trimethylated form of H3 (H3K9me3). Interacts with PCNP, HDAC1 and CDK2 (inactive form). Component of a complex at least composed of UHRF2, CDK2 and CCNE1. Interacts directly with CCNE1; the interaction ubiquitinates CCNE1 and appears independent of CCNE1 phosphorylation. Interacts with CCND1; the interaction ubiquitinates CCND1 and appears independent of CCND1 phosphorylation. Interacts with p53/TP53 and RB1. Interacts with UBE2I. **Subcellular Location:** Nucleus. Note=Enriched at pericentric heterochromatin (PH). This localization is dependent on the interaction with H3K9me3. **Post-translational modifications:** May be autoubiquitinated; which may lead to proteasomal degradation. Phosphorylated. Phosphorylation may be mediated by CDK2. Autosumoylated. DISEASE: Note=Associated with various cancers. DNA copy number loss is found in multiple kinds of malignancies originating from the brain, breast, stomach, kidney, hematopoietic tissue and lung. **Similarity:** Contains 1 PHD-type zinc finger. Contains 1 RING-type zinc finger. Contains 1 ubiquitin-like domain. Contains 1 YDG domain. **Database links:** **Entrez Gene:** 115426 Human **Entrez Gene:** 109113 Mouse **Entrez Gene:** 309331 Rat **SwissProt:** Q96PU4 Human **SwissProt:** Q7TMI3 Mouse **Unigene:** 493401 Human **Unigene:** 313364 Mouse

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