



## Rabbit Anti-NIRF antibody

SL6389R

<b>Product Name:</b>	NIRF
<b>Chinese Name:</b>	Ring finger protein107抗体
<b>Alias:</b>	E3 ubiquitin-protein ligase UHRF2; Np95 like RING finger protein; Np95-like ring finger protein; Np95/ICBP90 like RING finger protein; Np95/ICBP90-like RING finger protein; Nuclear protein 97; Nuclear zinc finger protein Np97; RING finger protein 107; RNF 107; RP11-472F14.2; Ubiquitin like containing PHD and RING finger domains protein 2; Ubiquitin-like PHD and RING finger domain-containing protein 2; Ubiquitin-like-containing PHD and RING finger domains protein 2; Uhrf2; UHRF2 HUMAN.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Cow,
<b>Applications:</b>	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=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>	90kDa
<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 NIRF:15-100/802
<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>	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 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.

**SWISS:**

Q96PU4

**Gene ID:**

115426

**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

**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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