

Mouse anti-Human, Rat NIRF Monoclonal Antibody | anti-UHRF2 antibody

Anti-NIRF Antibody Picoband (monoclonal, 6B5)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126949	Mouse	Human, Rat	Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

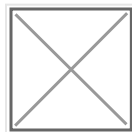
PRODUCT SYNONYMS

NIRF; Monoclonal Antibody; Anti-NIRF Antibody Picoband (monoclonal; 6B5); anti-UHRF2 antibody

PRODUCT SPECIFICATIONS

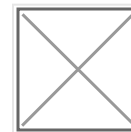
Host	Mouse
Reactivity	Human, Rat
Clonality	Monoclonal
Isotype	Mouse IgG2b
Clone Number	6B5
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-UHRF2 antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human NIRF (15-54aa TIEDVSRKATIEELRERVWALFDVRPECQRLFYRGKQLEN), identical to the related mouse and rat sequences.
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 4. Flow Cytometry analysis of RH35 cells using anti-NIRF antibody (AAA126949). Overlay histogram showing RH35 cells stained with AAA126949 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-NIRF Antibody (AAA126949, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-mouse IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was mouse IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



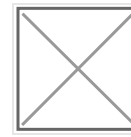
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of HeLa cells using anti-NIRF antibody (AAA126949). Overlay histogram showing HeLa cells stained with AAA126949 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-NIRF Antibody (AAA126949, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-mouse IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was mouse IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 2. IF analysis of NIRF using anti-NIRF antibody (AAA126949). NIRF was detected in an immunocytochemical section of HeLa cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL mouse anti-NIRF Antibody (AAA126949) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Mouse IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of NIRF using anti-NIRF antibody (AAA126949). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human HepG2 whole cell lysates, Lane 2: human HT1080 whole cell lysates, Lane 3: human Jurkat whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with mouse anti-NIRF antigen affinity purified monoclonal antibody (#AAA126949) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for NIRF at approximately 90 kDa. The expected band size for NIRF is at 90 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-UHRF2 antibody	E3 ubiquitin-protein ligase UHRF2 is an enzyme that in humans is encoded by the UHRF2 gene. This gene encodes a nuclear protein which is involved in cell-cycle regulation. The encoded protein is a ubiquitin-ligase capable of ubiquinating PCNP (PEST-containing nuclear protein), and together they may play a role in tumorigenesis. The encoded protein contains an NIRF_N domain, a PHD finger, a set- and ring-associated (SRA) domain, and a RING finger domain and several of these domains have been shown to be essential for the regulation of cell proliferation. This protein may also have a role in intranuclear degradation of polyglutamine aggregates. Alternative splicing results in multiple transcript variants some of which are non-protein coding.
Product Categories/Family for anti-UHRF2 antibody	Primary Antibodies, Mouse Monoclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	67462076
NCBI GeneID	115426
UniProt Accession #	Q96PU4; Q5VYR1; Q5VYR3; Q659C8; Q8TAG7
Molecular Weight	56,077 Da
NCBI Official Full Name	E3 ubiquitin-protein ligase UHRF2
NCBI Official Synonym Full Names	ubiquitin-like with PHD and ring finger domains 2, E3 ubiquitin protein ligase
NCBI Official Symbol	UHRF2
NCBI Official Synonym Symbols	NIRF; URF2; RNF107
NCBI Protein Information	E3 ubiquitin-protein ligase UHRF2; nuclear protein 97; RING finger protein 107; Np95-like ring finger protein; nuclear zinc finger protein NP97; np95/ICBP90-like RING finger protein; ubiquitin-like, containing PHD and RING finger domains, 2; ubiquitin-like
UniProt Protein Name	E3 ubiquitin-protein ligase UHRF2
UniProt Gene Name	UHRF2
UniProt Synonym Gene Names	NIRF; RNF107; Np95-like RING finger protein
UniProt Entry Name	UHRF2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.