

Rabbit anti-Human XRN2 Polyclonal Antibody | anti-XRN2 antibody

Anti-XRN2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125671	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

XRN2; Polyclonal Antibody; Anti-XRN2 Antibody; 5'-3' exoribonuclease 2; EC 3. 1. 13. -; DHM1-like protein; DHP protein; anti-XRN2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for XRN2 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4.
Applicable Applications for anti-XRN2 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E Coli-derived human XRN2 recombinant protein (Position: A5-N748).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of A431 cells using anti-XRN2 antibody (AAA125671). Overlay histogram showing A431 cells stained with AAA125671 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-XRN2 Antibody (AAA125671, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight[®]488 conjugated goat anti-rabbit IgG (5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of XRN2 using anti-XRN2 antibody (AAA125671). 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 30ug of sample under reducing conditions. Lane 1: human Hela whole cell lysates Lane 2: human HEK293 whole cell lysates Lane 3: human PC-3 whole cell lysates Lane 4: human COLO-320 whole cell lysates Lane 5: human HepG2 whole cell lysates Lane 6: human THP-1 whole cell lysates Lane 7: human A549 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with rabbit anti-XRN2 antigen affinity purified polyclonal antibody (Catalog # AAA125671) at 0. 5 µg/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-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 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 XRN2 at approximately 109KD. The expected band size for XRN2 is at 109KD.

ADDITIONAL INFORMATION

Related Product Information for anti-XRN2 antibody	5'-3' Exoribonuclease 2 (XRN2) also known as Dhml-like protein is an exoribonuclease enzyme that in humans is encoded by the XRN2 gene. This gene encodes a 5'-3' exonuclease that promotes transcription termination at cotranscriptional cleavage sites. Alternative splicing results in multiple transcript variants encoding different isoforms.
References	1. Chatterjee, S., Grosshans, H. Active turnover modulates mature microRNA activity in Caenorhabditis elegans. Nature 461: 546-549, 2009. 2. Shobuike, T., Sugano, S., Yamashita, T., Ikeda, H. Characterization of cDNA encoding mouse homolog of fission yeast dhp1+ gene: structural and functional conservation. Nucleic Acids Res. 23: 357-361, 1995. 3. West, S., Gromak, N., Proudfoot, N. J. Human 5-prime to 3-prime exonuclease Xrn2 promotes transcription termination at co-transcriptional cleavage sites. Nature 432: 522-525, 2004.

NCBI AND UNIPROT INFORMATION

NCBI GI #	18860916
NCBI GeneID	22803
NCBI Accession #	NP_036387.2
NCBI GenBank Nucleotide #	NM_012255.3
UniProt Accession #	Q9H0D6; Q3L8N4; Q6KGZ9; Q9BQL1; Q9NTW0; Q9NXS6; Q9UL53
Molecular Weight	108,582 Da
NCBI Official Full Name	5'-3' exoribonuclease 2
NCBI Official Synonym Full Names	5'-3' exoribonuclease 2
NCBI Official Symbol	XRN2
NCBI Protein Information	5'-3' exoribonuclease 2; DHP protein; Dhml-like protein (mouse homolog)
UniProt Protein Name	5'-3' exoribonuclease 2
UniProt Gene Name	XRN2
UniProt Synonym Gene Names	DHP protein
UniProt Entry Name	XRN2_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.