

Rabbit Ribonuclease 3/RNASE3 Polyclonal Antibody | anti-RNASE3 antibody

Anti-Ribonuclease 3/RNASE3 Antibody

CATALOG # AAA124949	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

Ribonuclease 3/RNASE3; Polyclonal Antibody; Anti-Ribonuclease 3/RNASE3 Antibody; Eosinophil cationic protein; ECP; Ribonuclease 3; RNase 3; RNASE3; RNS3; Ribonuclease A family member 3; anti-RNASE3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	No cross reactivity with other proteins.
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized
Sequence Length	160
Applicable Applications for anti-RNASE3 antibody	ELISA (Direct ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human Ribonuclease 3 recombinant protein (Position: R28-I160).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Relevant Detection Systems	It is recommended to use an Enhanced Chemiluminescent Kit with anti-Rabbit IgG for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit for IHC-P.
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.



IHC (Immunohiostchemistry)

Figure 3. IHC analysis of Ribonuclease 3 using anti-Ribonuclease 3 antibody. Ribonuclease 3 was detected in paraffin-embedded section of mouse small intestine tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/mL rabbit anti-Ribonuclease 3 antibody. Ribonuclease 3 was detected in paraffin-embedded section of mouse small intestine tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/mL rabbit anti-Ribonuclease 3 antibody. Ribonuclease 3 was detected in paraffin-embedded section of human sarcoma tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-Ribonuclease 3 Antibody overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of Ribonuclease 3 using anti-Ribonuclease 3 antibody. 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 50ug of sample under reducing conditions. Lane 1: human Jurkat whole cell lysates, Lane 2: rat liver tissue lysates, Lane 3: mouse liver tissue 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-Ribonuclease 3 antigen affinity purified polyclonal antibody 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-rabbit 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 Ribonuclease 3 at approximately 18KD. The expected band size for Ribonuclease 3 is at 18KD.

ADDITIONAL INFORMATION

Related Product Information for anti-RNASE3 antibody	<p>Description: Rabbit IgG polyclonal antibody for Ribonuclease 3 detection. Tested with WB, IHC-P, Direct ELISA in Human; Mouse; Rat.</p> <p>Background: Eosinophil Cationic Protein (ECP) also known as ribonuclease 3 is a basic protein located in the eosinophil primary matrix. In humans, the eosinophil cationic protein is encoded by the RNASE3 gene. The protein encoded by this gene belongs to the pancreatic ribonuclease family, a subset of the ribonuclease A superfamily. ECP is released during degranulation of eosinophils. This protein is related to inflammation and asthma because in these cases, there are increased levels of ECP in the body.</p>
References	<p>1. Mastrianni DM, Eddy RL, Rosenberg HF, Corrette SE, Shows TB, Tenen DG, Ackerman SJ (May 1992). "Localization of the human eosinophil Charcot-Leyden crystal protein (lysophospholipase) gene (CLC) to chromosome 19 and the human ribonuclease 2 (eosinophil-derived neurotoxin) and ribonuclease 3 (eosinophil cationic protein) genes (RNS2 and RNS3) to chromosome 14". Genomics. 13 (1): 240-2.</p> <p>2. Rosenberg, H. F., Ackerman, S. J., Tenen, D. G. Human eosinophil cationic protein: molecular cloning of a cytotoxin and helminthotoxin with ribonuclease activity. J. Exp. Med. 170: 163-176, 1989.</p>

NCBI AND UNIPROT INFORMATION

NCBI GI #	45243507
NCBI GeneID	6037
NCBI Accession #	NP_002926.2
NCBI GenBank Nucleotide #	NM_002935.2
UniProt Accession #	P12724; Q4VBC1; Q8WTP7; Q8WZ62; Q9GZN9
Molecular Weight	18,385 Da
NCBI Official Full Name	eosinophil cationic protein
NCBI Official Synonym Full Names	ribonuclease A family member 3
NCBI Official Symbol	RNASE3
NCBI Official Synonym Symbols	ECP; RAF1; RNS3
NCBI Protein Information	eosinophil cationic protein
UniProt Protein Name	Eosinophil cationic protein
UniProt Gene Name	RNASE3

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ribonuclease-3-rnase3-antibody-direct-elisa-immunohistochemistry-western-blot-elisa/124949>