

For Research Use Only

RNASE2/EDN Recombinant monoclonal antibody

Catalog Number:88054-1-RR



Basic Information

Catalog Number: 88054-1-RR	GenBank Accession Number: BC093678	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 6036	CloneNo.: 260304C6
Source: Rabbit	UNIPROT ID: P10153	Recommended Dilutions: WB: 1:5000-1:50000
Isotype: IgG	Full Name: ribonuclease, RNase A family, 2 (liver, eosinophil-derived neurotoxin)	
Immunogen Catalog Number: AG28325	Calculated MW: 161 aa, 18 kDa	
	Observed MW: 18 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : human urine sample,
Species Specificity: human	

Background Information

RNASE2, also known as eosinophil-derived neurotoxin (EDN), is a member of the RNase A superfamily and is predominantly expressed in eosinophilic leukocytes, where it is stored in large quantities within specific cytoplasmic granules. Structurally, RNASE2 possesses a catalytic domain that confers ribonuclease activity, which enables its primary role in the host immune response against viral infections by directly degrading viral RNA, thereby inhibiting viral replication. Upon release from activated eosinophils, RNASE2 can signal through pattern recognition receptors such as Toll-like receptor 2 (TLR2) to activate dendritic cells and promote T-helper type 2 (Th2) immune responses. Elevated levels of RNASE2 are found in various inflammatory conditions, including asthma, allergic rhinitis, and parasitic infections, making it a key biomarker for eosinophil activation. Beyond its roles in immunity and inflammation, RNASE2 also exhibits neurotoxic activity, and has been implicated in wound healing and tissue remodeling processes.

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

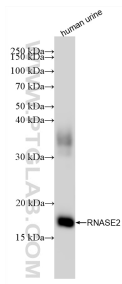
For technical support and original validation data for this product please contact:

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Selected Validation Data



human urine sample were subjected to SDS PAGE followed by western blot with 88054-1-RR (RNASE2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.