

For Research Use Only

RNF139 Recombinant antibody, PBS Only

Catalog Number: 83755-2-PBS



Basic Information

Catalog Number: 83755-2-PBS	GenBank Accession Number: BC064636	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 11236	CloneNo.: 240481G6
Source: Rabbit	UNIPROT ID: Q8WU17	
Isotype: IgG	Full Name: ring finger protein 139	
Immunogen Catalog Number: AG21530	Calculated MW: 664 aa, 76 kDa	
	Observed MW: 76 kDa	

Applications

Tested Applications:
WB, FC (Intra), ELISA

Species Specificity:
human

Background Information

The RNF139 gene (ring-finger protein 139), also known as TRC8 (translocation in renal carcinoma from chromosome 8), was first identified from a family with 3;8 chromosomal translocation and hereditary renal cell carcinoma and thyroid cancer (PMID:22689053). RNF139 encodes an endoplasmic reticulum (ER) protein with 10 transmembrane segments that contain a sterol-sensing domain and a RING finger motif encoding an E3 ubiquitin ligase (PMID: 19706601). Northern blot and dot blot show that RNF139 is highly expressed in the testis, placenta, and adrenal gland and is expressed at lower levels in the heart, brain, liver, skeletal muscle, and pancreas (PMID: 9689122). It is reported that TRC8 suppresses tumorigenesis by targeting heme oxygenase-1 (HO-1), an antioxidant enzyme highly expressed in various cancers, for ubiquitination and degradation (PMID:22689053). TRC8 is also involved in cholesterol and fatty acid biosynthesis that are transcriptionally regulated by the sterol response element binding proteins (SREBPs) (PMID:17016439). Acetylation, phosphorylation, and autoubiquitination are common post-translational modifications of FNF139 protein.

Storage

Storage:
Store at -80°C.

Storage Buffer:
PBS Only

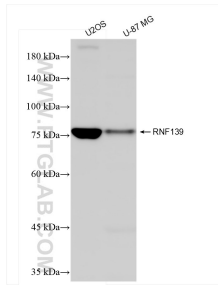
For technical support and original validation data for this product please contact:

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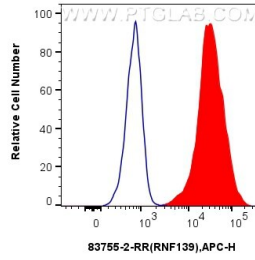
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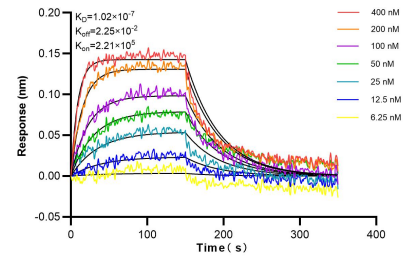
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83755-2-RR (RNF139 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83755-2-PBS in a different storage buffer formulation.



1×10^6 MCF-7 cells were intracellularly stained with 0.25 μ g Rnf139 Recombinant Antibody (83755-2-RR, Clone:240481G6) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 μ g Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 83755-2-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 83755-2-RR against Human RNF139 were performed. The affinity constant is 102 nM.