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Datasheet for 600-401-CQ9

MARCH8 Antibody

Overview

Description:	Anti-MARCH8 (RABBIT) Antibody - 600-401-CQ9
Item No.:	600-401-CQ9
Size:	100 µg
Applications:	ELISA, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	MARCH8 (c-MIR) is a novel E3 ubiquitin ligase designated as the modulator of immune recognition (MIR) family, whose catalytic domain is a variant RING domain (RING-CH domain). MARCH8 was found as a functional and structural homolog of KSHV MIR1 and MIR2. MARCH8 targets B7-2 to lysosomal degradation and down-regulates the B7-2 surface expression through ubiquitination of its cytoplasmic tail. Furthermore, MARCH8 has been shown to down-regulate the expression of transferrin receptor and Fas, an important molecule for the induction of apoptosis. MARCH8 is the first example of an E3 ubiquitin ligase that is capable of inhibiting MHC II expression. Recent findings suggest that MARCH8 may regulate immune responses by promoting ubiquitination of MHC-II and CD86, leading to their subsequent endocytosis and lysosomal degradation.
Synonyms:	MARCH8 Antibody, MIR, c-MIR, RNF178, MARCH-VIII, MIR, E3 ubiquitin-protein ligase MARCH8, Cellular modulator of immune recognition
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	MARCH8
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-MARCH8 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 17 amino acid synthetic peptide from near the C-terminus of human MARCH8.
Purity/Specificity:	Anti-MARCH8 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with MARCH8 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q5T0T0 • GeneID - 220972 • NCBI - NP_659458

Application Details

Tested Applications:	ELISA, IHC, WB
Application Note:	Anti-MARCH8 Antibody has been tested for use in ELISA, Western Blotting, Immunocytochemistry. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 33 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5000 - 1:10000
WB:	0.5 - 1 µg/ml

Formulation

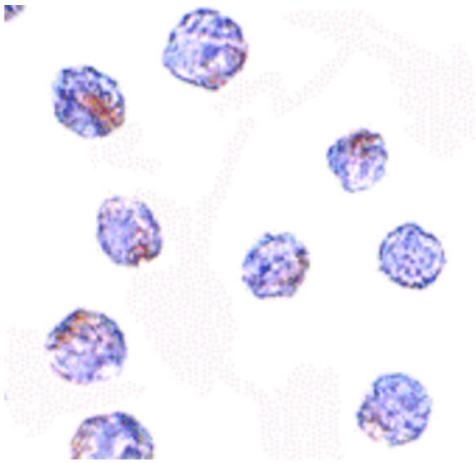
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

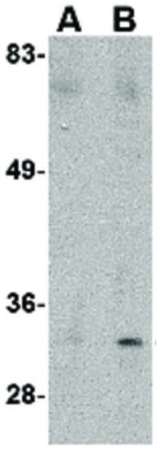
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunocytochemistry
Immunocytochemistry of MARCH8 antibody. Tissue: HeLa cells. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: MARCH8 antibody at 2.5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: MARCH8 is nuclear and occasionally cytoplasmic. Staining: MARCH8 as a precipitated brown signal with hematoxylin purple counterstain.



Western Blot
Western Blot of MARCH8 antibody. Lane A: HeLa cel lysate at 0.5 µg/ml. Lane B: HeLa cel lysate at 1 µg/ml. Load: 35 µg per lane. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 32.9 kDa, ~33 kDa for MARCH8.

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