

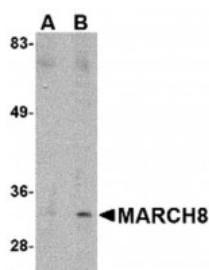
ProSci Incorporated
12170 Flint Place
Poway, CA 92064

Toll Free: +1 (888) 513 9525
Local: +1 (858) 513 2638
Fax: +1 (858) 513 2692

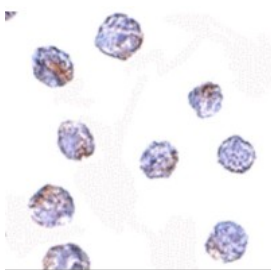
techsupport@prosci-inc.com
prosci-inc.com

MARCH8 Antibody

CATALOG NUMBER: 4885



Western blot analysis of MARCH8 in HeLa cell lysate with MARCH8 antibody at (A) 0.5 ug/ml and (B) 1 ug/mL.



Immunocytochemistry of MARCH8 in HeLa cells with MARCH8 antibody at 2.5 ug/mL.

Specifications

SPECIES REACTIVITY:	Human, Mouse, Rat
HOMOLOGY:	Predicted species reactivity based on immunogen sequence: Bovine: (76%)
TESTED APPLICATIONS:	ELISA, ICC, WB
APPLICATIONS:	MARCH8 antibody can be used for detection of MARCH8 by Western blot at 0.5 - 1 ug/mL. Antibody can also be used for immunocytochemistry starting at 2.5 ug/mL.
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
POSITIVE CONTROL:	1) Cat. No. 1201 - HeLa Cell Lysate 2) Cat. No. 17-001 - HeLa Cell Slide
IMMUNOGEN:	MARCH8 antibody was raised against a 17 amino acid synthetic peptide from near the carboxy terminus of human MARCH8. The immunogen is located within the last 50 amino acids of MARCH8.
HOST SPECIES:	Rabbit

Properties

PURIFICATION:	MARCH8 Antibody is affinity chromatography purified via peptide column.
PHYSICAL STATE:	Liquid
BUFFER:	MARCH8 Antibody is supplied in PBS containing 0.02% sodium azide.
CONCENTRATION:	1 mg/mL
STORAGE CONDITIONS:	MARCH8 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
CLONALITY:	Polyclonal
ISOTYPE:	IgG

CONJUGATE: Unconjugated

Additional Info

ALTERNATE NAMES: MARCH8 Antibody: MIR, c-MIR, RNF178, MARCH-VIII, MIR, E3 ubiquitin-protein ligase MARCH8, Cellular modulator of immune recognition

ACCESSION NO.: NP_659458

PROTEIN GI NO.: 50539410

OFFICIAL SYMBOL: MARCH8

GENE ID: 220972

Background

BACKGROUND: MARCH8 Antibody: 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.

REFERENCES:

- 1) Coscoy L, Sanchez DJ, and Ganem D. A novel class of herpesvirus-encoded membrane-bound E3 ubiquitin ligases regulates endocytosis of proteins involved in immune recognition. *J. Cell Biol.* 2001; 155:126573.
- 2) Goto E, Ishido S, Sato Y, et al. c-MIR, a human E3 ubiquitin ligase, is a functional homolog of herpesvirus proteins MIR1 and MIR2 and has similar activity. *J. Biol. Chem.* 2003; 278:14657-68.
- 3) Ohmura-Hoshino M, Goto E, Matsuki Y, et al. A novel family of membrane-bound E3 ubiquitin ligases. *J. Biochem.* 2006; 140:147-54.
- 4) Bartee E, Mansouri M, Hovey Nerenberg BT, et al. Downregulation of major histocompatibility complex class I by human ubiquitin ligases related to viral immune evasion proteins. *J. Virol.* 2004; 78:1109-20.

FOR RESEARCH USE ONLY

January 11, 2018