

CCL5/RANTES Rabbit mAb**Catalog No.: A29547****Basic Information****Observed MW**

10 kDa

Calculated MW

10 kDa

Category

Monoclonal Antibodies

Applications

WB, IF/ICC, IHC-P, ELISA

Cross Reactivity

Human, Mouse, Rat

Clone No.

ARC3973

Background

Enables CCR1 chemokine receptor binding activity. Involved in negative regulation of macrophage apoptotic process; positive regulation of monocyte chemotaxis; and positive regulation of neuroinflammatory response. Acts upstream of or within inflammatory response; positive regulation of epithelial cell proliferation; and response to tumor necrosis factor. Located in cytoplasm and extracellular region. Is expressed in several structures, including central nervous system; genitourinary system; hemolymphoid system; liver; and retina. Human ortholog(s) of this gene implicated in several diseases, including human immunodeficiency virus infectious disease; liver disease (multiple); pancreatitis; pulmonary tuberculosis; and severe acute respiratory syndrome. Orthologous to human CCL5 (C-C motif chemokine ligand 5).

Recommended Dilutions**WB** 1:3000 - 1:7000**IF/ICC** 1:200 - 1:400**IHC-P** 1:500 - 1:2000

ELISA Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions ($\geq 1:10,000$), a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information**Gene ID**

20304

Swiss-Prot

P30882

Immunogen

This information is considered to be commercially sensitive.

Synonyms

SISd; Scya5; RANTES; TCP228; MuRantes

Product Information**Source**

Rabbit

Isotype

IgG

Purity

Affinity purification

Storage

Store at -20°C

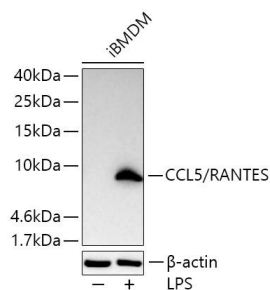
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Validation Data



Western blot analysis of lysates from iBMDM cells using CCL5/RANTES Rabbit mAb (A29547) at 1:7000 dilution incubated overnight at 4°C. iBMDM cells were treated with LPS (1 µg/mL) at 37°C for 24 hours.

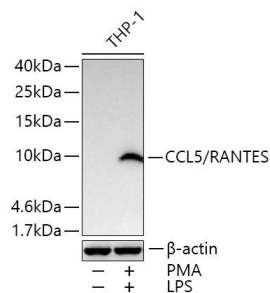
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 30 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 90 s.



Western blot analysis of lysates from THP-1 cells using CCL5/RANTES Rabbit mAb (A29547) at 1:7000 dilution incubated overnight at 4°C. THP-1 cells were treated with PMA (80 nM) at 37°C for 48 hours and LPS (2 µg/mL) at 37°C for 3 hours.

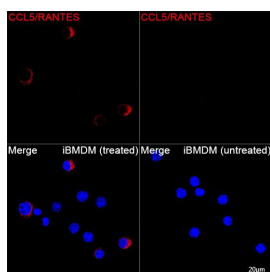
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 30 µg per lane.

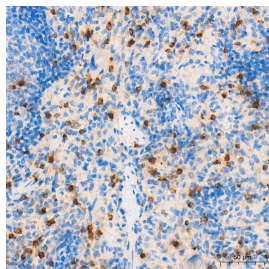
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

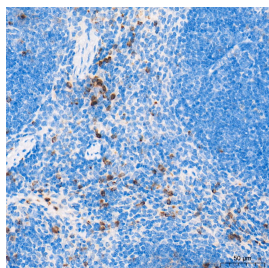
Exposure time: 90 s.



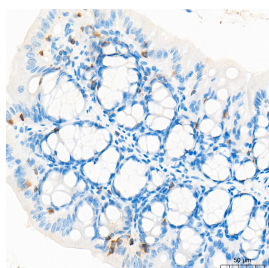
Confocal imaging of iBMDM cells (treated with LPS) and iBMDM cells (untreated) using CCL5/RANTES Rabbit mAb (A29547, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



Immunohistochemistry analysis of paraffin-embedded Rat spleen tissue using CCL5/RANTES Rabbit mAb (A29547) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse spleen tissue using CCL5/RANTES Rabbit mAb (A29547) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse colon tissue using CCL5/RANTES Rabbit mAb (A29547) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.