

OLFM4 Rabbit mAb

Catalog No.: A30051**Recombinant**

Basic Information

Observed MW

70 kDa, 85-90 kDa

Calculated MW

57 kDa

Category

Monoclonal Antibodies

Applications

WB, IP, IF-F, IHC-P, ELISA

Cross Reactivity

Mouse

Clone No.

ARC4280

Background

Predicted to enable cadherin binding activity and structural molecule activity. Acts upstream of or within negative regulation of canonical NF-kappaB signal transduction and negative regulation of immune response. Located in extracellular region. Is expressed in bone marrow; colon; intestine; metanephros; and small intestine. Orthologous to human OLFM4 (olfactomedin 4).

Recommended Dilutions

WB 1:6000 - 1:15000**IP**

0.5 µg - 4 µg antibody for 400 µg - 600 µg extracts of whole cells

IF-F 1:500 - 1:2000**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 ($\geq 1:10000$), a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID

380924

Swiss-Prot

Q3UZZ4

Immunogen

This information is considered to be commercially sensitive.

Synonyms

GC1; OlfD; pPD4; GW112; Gm296; Gm913

Contact

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Product Information

Source

Rabbit

Isotype

IgG

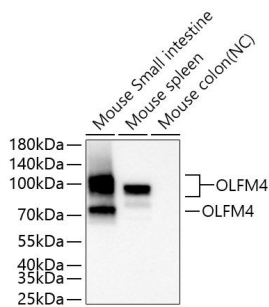
Purity

Affinity purification

Storage

Store at -20°C

Validation Data



Western blot analysis of various lysates using OLFM4 Rabbit mAb (A30051) at 1:14000 dilution incubated overnight at 4°C.

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

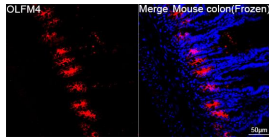
Lysates/proteins: 25 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

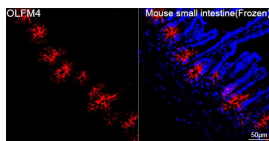
Detection: ECL Basic Kit (RM00020).

Negative control (NC): Mouse colon.

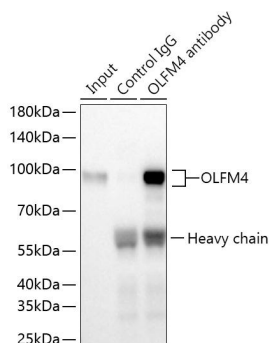
Exposure time: 60 s.



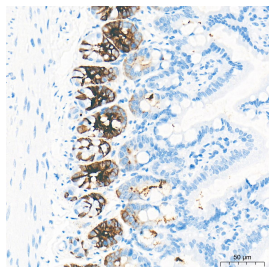
Confocal imaging of frozen sections of Mouse colon tissue using OLFM4 Rabbit mAb (A30051, dilution 1:1000) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Confocal imaging of frozen sections of Mouse small intestine tissue using OLFM4 Rabbit mAb (A30051, dilution 1:1000) 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). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Immunoprecipitation of OLFM4 from 600 µg extracts of Mouse spleen tissue was performed using 2 µg of OLFM4 Rabbit mAb (A30051). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using OLFM4 Rabbit mAb (A30051) at a dilution of 1:1000.



Immunohistochemistry analysis of paraffin-embedded Mouse intestine tissue using OLFM4 Rabbit mAb (A30051) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.