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Mouse IgM Rabbit mAb

Catalog No.: A25537 Recombinant

Basic Information

Observed MW
75kDa

Calculated MW
50kDa/53kD

Category
Primary antibody

Applications
WB,IHC-P,FC,ELISA

Cross-Reactivity
Mouse

CloneNo number
ARC58894

Background

Enables several functions, including antigen binding activity; identical protein binding activity; and immunoglobulin receptor binding activity. Acts upstream of or within several processes, including early endosome to late endosome transport; immunoglobulin mediated immune response; and positive regulation of B cell proliferation. Located in external side of plasma membrane; extracellular space; and perinuclear region of cytoplasm. Part of B cell receptor complex and immunoglobulin complex, circulating. Is expressed in several structures, including brain; hemolymphoid system; and liver. Used to study non-Hodgkin lymphoma and type 1 diabetes mellitus. Human ortholog(s) of this gene implicated in agammaglobulinemia. Orthologous to human IGHM (immunoglobulin heavy constant mu).

Recommended Dilutions

WB	1:1000 - 1:5000
IHC-P	1:100 - 1:500
FC	1:500 - 1:1000
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
□

Swiss Prot
P01872

Immunogen
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

Synonyms
Igm; muH; Igh6; Igh-6; Igh-M

Contact

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Product Information

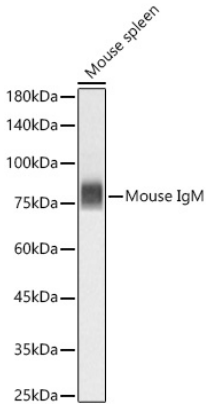
Source
Rabbit

Isotype
IgG

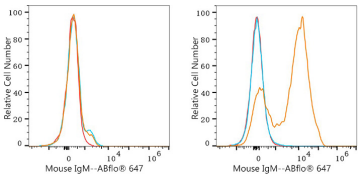
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

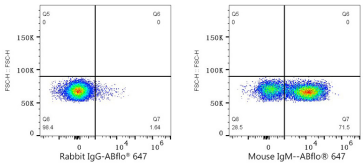
Validation Data



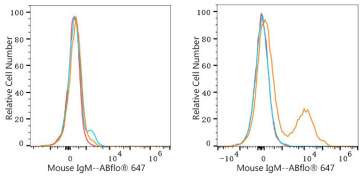
Western blot analysis of lysates from Mouse spleen using Mouse IgM Rabbit mAb (A25537) at 1:3000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10s.



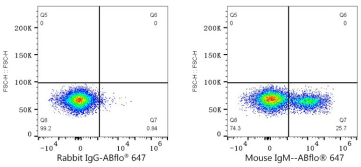
Flow cytometry: 1X10^6 NIH/3T3 cells (negative control,left) and C57BL/6 mouse splenocytes (right) were surface-stained with Mouse IgM Rabbit mAb (A25537,2 µg/mL,orange line) or Rabbit IgG isotype control (AC042,2 µg/mL,blue line), followed by Alexa Fluor® 647 conjugated goat anti-rabbit pAb staining. Non-fluorescently stained cells were used as blank control (red line).



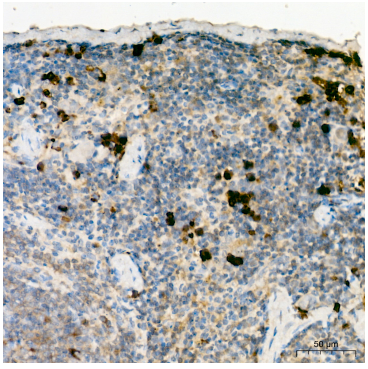
Flow cytometry: 1X10^6 C57BL/6 mouse splenocytes were surface-stained with Rabbit IgG isotype control (AC042,2 µg/mL,left) or Mouse IgM Rabbit mAb (A25537,2 µg/mL,right), followed by Alexa Fluor® 647 conjugated goat anti-rabbit pAb staining.



Flow cytometry: 1X10^6 NIH/3T3 cells (negative control,left) and Mouse PBMC (right) were surface-stained with Mouse IgM Rabbit mAb (A25537,2 µg/mL,orange line) or Rabbit IgG isotype control (AC042,2 µg/mL,blue line), followed by Alexa Fluor® 647 conjugated goat anti-rabbit pAb staining. Non-fluorescently stained cells were used as blank control (red line).



Flow cytometry: 1X10^6 Mouse PBMC were surface-stained with Rabbit IgG isotype control (AC042,2 µg/mL,left) or Mouse IgM Rabbit mAb (A25537,2 µg/mL,right), followed by Alexa Fluor® 647 conjugated goat anti-rabbit pAb staining.



Immunohistochemistry analysis of paraffin-embedded Mouse spleen tissue using Mouse IgM Rabbit mAb (A25537) at a dilution of 1:300 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.