Mouse anti IgD Monoclonal Antibody

Alternative Name(s): nan

Order Information

- **Description:** IgD
- **Catalogue:** 605-490
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Mouse
- **Clone:** IA6-2
- **Application:** IHC(P), FC
- **Reactivity:** Hu

ANTIGEN PREPARATION

Immunoglobulin IgD

BACKGROUND

IgD is a member of the immunoglobulin family, an antibody isotype, expressed on plasma membranes of immature B cells. In a secreted form it is found in very small amounts in blood serum. IgM and IgD are the first antibody isotypes expressed during B cell ontogeny. After leaving the bone marrow to colonize secondary lymphoid organs, B cells acquire surface IgD of the same specificity as surface IgM through alternative splicing of a pre-messenger RNA comprising V(D)J and both heavy chain constant μ (Cμ) and Cδ exons. After encountering antigen in secondary lymphoid organs, mature B cells transcriptionally down-regulate surface IgD. Secreted IgD might enhance immune protection by regulating B cell homeostasis and activation. IgD-deficient mice have fewer B cells, delayed affinity maturation, and weaker production of IgG1 and IgE. IgD homologs are present in all vertebrate taxa, except for birds. IgD gene organization and structural data demonstrates that IgD has an ancient origin.

PURIFICATION

The mouse IgG is purified by Protein A-Affinity Chromatography according to Isotyping

FORMULATION

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

SPECIFICITY

This antibody recognizes human IgD protein. The other species are not tested.

STORAGE

The antibodies are stable for 24 months from date of receipt when stored at –20oC to –70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

APPLICATIONS/SUGGESTED WORKING DILUTIONS*

- Western Blot: 0.1-1 μg/ml
- ELISA: 0.01-0.1 μg/ml
- Immunoprecipitation: 2-5 μg/ml
- IHC: 2-10 μg/ml
- Flow cytometry: 0.5-5 μg/106 cells
- Molecular Weight: 180.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

*Optimal dilutions should be determined by researchers for the specific applications.

FOR RESEARCH USE ONLY.

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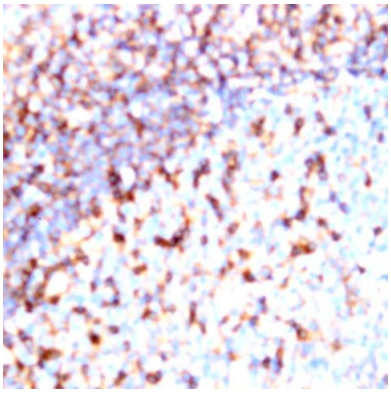
DATA ATTACHMENTS



Immunohistochemistry: Human Tonsil (FFPE) stained with Mouse anti-IgD (Cat# 605-490) at 1:200 for 10 min @ RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

REFERENCES

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