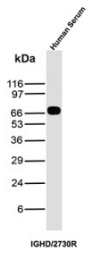
IgD Antibody IGHD/2730R / Heavy chain [clone IGHD/2730R] (V4322)

Catalog No.	Formulation	Size
V4322-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4322-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4322SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

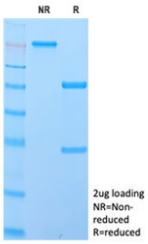
Recombinant RABBIT MONOCLONAL

Bulk quote request

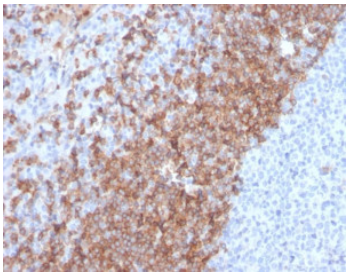
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	IGHD/2730R
Purity	Protein A/G affinity
UniProt	P01880
Localization	Cytoplasm
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 minutes at RT Western blot: 2-4ug/ml
Limitations	This IgD Antibody IGHD/2730R is available for research use only.



IgD Antibody IGHD/2730R in Human Serum WB. Western blot testing of human serum with IgD Antibody clone IGHD/2730R detects a strong, discrete band at approximately 65-70 kDa, consistent with the immunoglobulin delta heavy chain. The recombinant rabbit monoclonal shows minimal additional reactivity under the tested conditions, producing a clean Western blot signal. This heavy chain antibody targets IGHD, the constant region of the immunoglobulin delta heavy chain.



SDS-PAGE analysis of purified, BSA-free IgD antibody (clone IGHD/2730R) as confirmation of integrity and purity.



IHC staining of FFPE human tonsil tissue with IgD Antibody IGHD/2730R. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

Description

Immunoglobulins are four-chain, Y-shaped, monomeric structures comprised of two identical heavy chains and two identical light chains held together through interchain disulfide bonds. The chains form two domains, the Fab (antigen binding) fragment and the Fc (constant) fragment. Immunoglobulin D (IgD) exists as a monomer with delta heavy chains and either kappa or lambda light chains. It plays a biological role as a transmembrane receptor molecule, co-expressed with IgM on the surface of mature/naive B cells. In particular, it is found on spleen B cell surfaces. Compared to IgM, IgD exists in much lower numbers and is not expressed on immature B cells. IgD surface expression on B cells is regulated in part by IL-27. In mice, the inhibition of this immunoglobulin isotype does not cause a significant change to the immune system.

For detection of total human IgD, see our Recombinant Human IgD Antibody RM123 page.

Application Notes

Optimal dilution of the IgD Antibody IGHD/2730R should be determined by the researcher.

Immunogen

Recombinant full-length human IGHD protein was used as the immunogen for the IgD Antibody IGHD/2730R.

Storage

Aliquot the IgD Antibody IGHD/2730R and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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