

Product datasheet

Anti-IgM antibody [KT95] (HRP) ab170492

1 Image

Overview

Product name	Anti-IgM antibody [KT95] (HRP)
Description	Rat monoclonal [KT95] to IgM (HRP)
Host species	Rat
Conjugation	HRP
Tested applications	Suitable for: WB, ELISA
Species reactivity	Reacts with: Mouse
Immunogen	Full length protein corresponding to Mouse IgM.
Positive control	Mouse IgM

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	Preservative: 0.01% Thimerosal (merthiolate) Constituent: 99% PBS
Purity	Protein G purified
Clonality	Monoclonal
Clone number	KT95
Isotype	IgG2b

Applications

Our [Abpromise guarantee](#) covers the use of **ab170492** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000. Predicted molecular weight: 49 kDa. Using DAB substrate.

Application	Abreviews	Notes
ELISA		1/1000.

Target

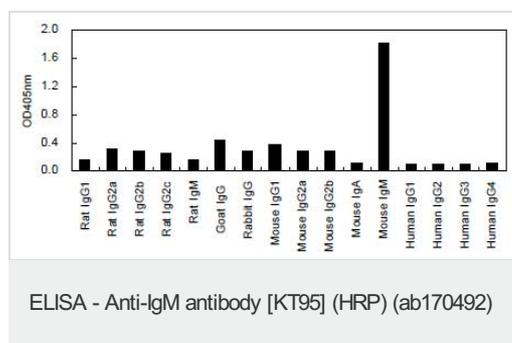
Relevance

IgM normally constitutes about 10% of serum immunoglobulins. IgM antibody is prominent in early immune responses to most antigens and predominates in certain antibody responses such as 'natural' blood group antibodies. IgM (with IgD) is the major immunoglobulin expressed on the surface of B cells. The gene for the mu constant region contains four domains separated by short intervening sequences. Class specific anti immunoglobulin antibodies are useful for: The characterization of malignant B cell proliferations. All but acute lymphocytic leukemias share either surface or intra cytoplasmic Ig with an isotypic restriction, which suggest the monoclonal nature of the cell population. Most of the chronic lymphocytic leukemias, non Hodgkin lymphomas and Burkitt's lymphoma bear surface IgM, whereas plasmocytes from Waldenström's disease bear intracytoplasmic IgM. The other isotypes are less frequently found. On the other hand multiple myelomas are usually of the IgG or IgA type. Characterization of plasma cells in inflammatory conditions: Plasma cell typing can be of use for the classification of intestinal inflammatory conditions such as inflammatory bowel disease and allergic conditions. In the latter a specific increase in the number of IgE plasma cells can be demonstrated.

Cellular localization

Isoform 1: Secreted. During differentiation, B lymphocytes switch from expression of membrane bound IgM to secretion of IgM. Isoform 2: Cell membrane; Single pass type I membrane protein.

Images



ELISA showing cross-reactivity to various immunoglobulins using ab170492 at 1/1000 dilution.

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