

Product datasheet

Anti-IgM antibody [KT103] (HRP) ab170327

2 Images

Overview

Product name	Anti-IgM antibody [KT103] (HRP)
Description	Mouse monoclonal [KT103] to IgM (HRP)
Host species	Mouse
Conjugation	HRP
Tested applications	Suitable for: ELISA, WB
Species reactivity	Reacts with: Rat Does not react with: Mouse, Rabbit, Human
Immunogen	Full length protein corresponding to Rat IgM.
Positive control	Rat IgM

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.01% Thimerosal (merthiolate) Constituent: 99% PBS
Purity	Protein A purified
Purification notes	ab170327 is purified through a Protein A column and labeled with horseradish peroxidase.
Clonality	Monoclonal
Clone number	KT103
Isotype	IgG1

Applications

Our [Abpromise guarantee](#) covers the use of **ab170327** 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
ELISA		1/2000.
WB		1/1000. Dilution using DAB as substrate. More dilution is needed for ECL system.

Target

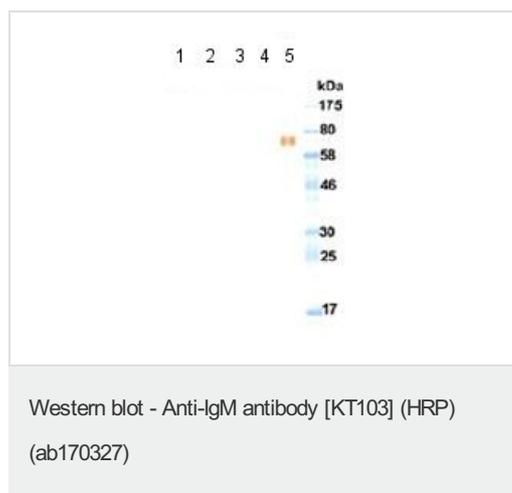
Relevance

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



All lanes : Anti-IgM antibody [KT103] (HRP) (ab170327) at 1/1000 dilution

Lane 1 : rat IgG1

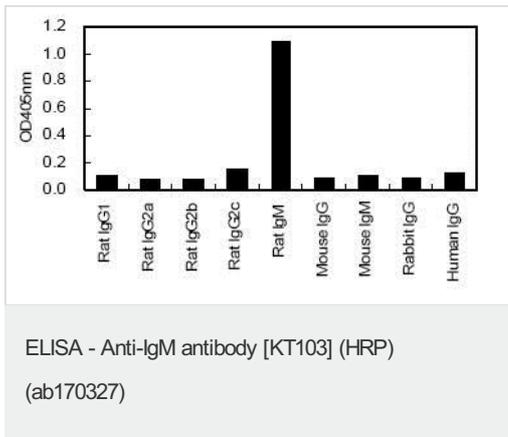
Lane 2 : rat IgG2a

Lane 3 : rat IgG2b

Lane 4 : rat IgG2c

Lane 5 : rat IgM

Performed under reducing conditions.



ELISA for crossreactivity of ab170327 to various immunoglobulins.

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