Datasheet for ABIN457754

Goat anti-Guinea Pig IgM (Fc Region) Antibody (FITC)

2 Publications

Go to Product page

Overview

Quantity:	1 mL
Target:	IgM
Binding Specificity:	Fc Region
Reactivity:	Guinea Pig
Host:	Goat
Clonality:	Polyclonal
Conjugate:	FITC
Application:	ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	Purified IgM isolated from guinea pig serum. Freund's complete adjuvant is used in the first step of the immunization procedure.
Specificity:	Fluorescein isothiocyanate-conjugated IgG fraction of polyclonal Goat antiSerum to Guinea Pig IgM, Fc specific
Cross-Reactivity (Details):	This immunoconjugate is not species-specific since inter-species cross-reactivity is a normal feature of antisera to immunoglobulins. Cross-reactivity of this antiSerum has not been tested in detail.
Characteristics:	The reactivity of the antiserum is directed to the Fc subunit of the IgM molecule, which expresses strict (class) specificity. In immunoelectrophoresis and radial in immunodiffusion using various antiserum concentrations against guinea pig serum, a single precipitin line has

Product Details

	been obtained which shows a reaction of identity with the precipitin lines obtained with the purified IgM used as immunogens. It does not react with IgG, IgG/Fab fragments and IgA or any non-Ig protein in guinea pig serum, as tested by immunoelectrophoresis and double radial immunodiffusion. In immunocytochemical and immunohistochemical staining of IgM at the cellular and subcellular level of appropriately treated cell and tissue substrates, to demonstrate circulating IgM antibodies in serodiagnostic microbiology and autoimmune diseases, to identify a specific antigen using a reference antibody of guinea pig origin known to be of the IgM isotype in the middle layer of the indirect test procedure. This immunoconjugate is not pre-diluted. The optimum working dilution of each conjugate should be established by titration before being used. Excess labelled antibody must be avoided because it may cause high unspecific background staining and interfere with the specific signal.
Purification:	Purified

Target Details

Target:	IgM
Abstract:	IgM Products
Target Type:	Antibody

Application Details

Application Notes:	ELISA,Immunocytochemistry,Immunohistochemistry (frozen),(In)direct immunofluorescence.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	It is reconstituted by adding 1 mL sterile distilled water, spun down to remove insoluble particles, divided into small aliquots, frozen and stored at or below -20 °C.FITC-coupled purified hyperimmune goat IgG lyophilized from a solution in phosphate buffered saline (PBS, pH 7.2). No preservative added, as it may interfere with the antibody activity. It is reconstituted by adding 1 mL sterile distilled water, spun down to remove insoluble particles, divided into small aliquots, frozen and stored at or below -20 °C.
Buffer:	FITC-coupled purified hyperimmune goat IgG lyophilized from a solution in phosphate buffered saline (PBS, pH 7.2). No preservative added, as it may interfere with the antibody activity.

Handling

Preservative:	Without preservative
Storage:	RT,4 °C,-20 °C
Storage Comment:	The lyophilized conjugate is shipped at ambient temperature and may be stored at +4°C, prolonged storage at or below -20°C. Prior to use, an aliquot is thawed slowly at ambient temperature, spun down again and used to prepare working dilutions by adding sterile phosphate buffered saline (PBS, pH 7.2). Repeated thawing and freezing should be avoided. Working dilutions should be stored at +4°C, not refrozen, and preferably used the same day. If a slight precipitation occurs upon storage, this should be removed by centrifugation. It will not affect the performance of the immunoconjugate.

Publications

Product cited in:	Lei, Yang, Tran, Wang, Chiang, Ozorowski, Xiao, Ward, Wyatt, Li: "The HIV-1 Envelope Glycoprotein C3/V4 Region Defines a Prevalent Neutralization Epitope following Immunization." in: **Cell reports**, Vol. 27, Issue 2, pp. 586-598.e6, (2020) (PubMed). Lei, Tran, Wang, Steinhardt, Xiao, Chiang, Wyatt, Li: "Antigen-Specific Single B Cell Sorting and Monoclonal Antibody Cloning in Guinea Pigs." in: **Frontiers in microbiology**, Vol. 10, pp. 672, (2019) (PubMed).