
Human IgM

Catalog Number: bs-0345P

Predicted MW: 950 kDa

Form: Lyophilized or Liquid

Applications: Isotype Control, Blocking Assay, etc., Conjugate-Dependent.

Storage: 0.01M PBS (pH7.4).

Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: IgM normally constitutes about 10% of serum immunoglobulins. IgM antibody is prominent in early immune responses to most antigens and is largely confined to plasma due to its large size. Monomeric IgM is expressed as a membrane bound antibody on the surface of B cells and as a pentamer when secreted by plasma cells. Due to its high valency IgM is more efficient than other isotypes in binding antigens with repeating epitopes (virus particles and red blood cells) and is more efficient than IgG in activating the complement pathway. The gene for the mu constant region contains four domains separated by short intervening sequences.

Application:

ELISA: Use at an assay dependent dilution.

Not yet tested in other applications.

Optimal working dilutions must be determined by the end user.

PRODUCT SPECIFIC PUBLICATIONS

[IF=4.34] Gao, Hongfei, et al. Amorphous carbon nanoparticle used as novel resonance energy transfer acceptor for chemiluminescent immunoassay of transferrin. Biosensors and Bioelectronics 60 (2014) 224–230. Other ; . 24636417

[IF=2.88] Tang M et al. Quantum dots-based sandwich immunoassay for sensitive detection of Alzheimer's disease-related Aβ1-42. Spectrochim Acta A Mol Biomol Spectrosc. 2018 Aug 5;201:82-87. Other ; . 29734108

[IF=1.953] Wu et al. Development of a C3c-based ELISA method for the determination of anti-complementary potency of Bupleurum polysaccharides. (2015) Acta.Pharm.Sin.. 5:316-22 ELISA ; . 26579461

[IF=0] Li L et al. Hypoxia restrains the expression of complement component 9 in tumor-associated

macrophages promoting non-small cell lung cancer progression. Cell Death Discov. 2018 Jun 7;4:63. Other ;
. 29900010