

Anti-IgM [1.14] Standard Size Ab02046-23.0

This chimeric rabbit antibody was made using the variable domain sequences of the original mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Rabbit IgG, Kappa

Clone Number: 1.14

Alternative Name(s) of Target: Trout immunoglobulin M; immunoglobulin M

UniProt Accession Number of Target Protein:

Published Application(s): affinity chromatography, IP, RIP, ELISA, FC, IF

Published Species Reactivity: Trout

Immunogen: This antibody was raised by immunizing female BALB/c mice with purified trout IgM.

Specificity: This antibody is specific for trout IgM. It reacts with the IgM heavy chain (Hedfors et al, 2012, pmid:23009920). It is not directed against nonprotein antigenic parts of the IgM, which is shown by the failure of IgM glycopeptides to inhibit precipitation (Deluca et al, 1983, pmid:6347695). 1.14 is crossreactive with atlantic salmon IgM (Hedfors et al, 2012, pmid:23009920). The antibody targets either IgM-A of IgM-B (Hedfors et al, 2012, pmid:23009920). It has been shown that this antibody does not show crossreactivity with catfish IgM (Moulana et al, 2008, pmid:18676026).

Application Notes: This antibody has been used for affinity chromatography with the protein A (Deluca et al, 1983, pmid:6347695). The antibody was shown to be effective in flow cytometry application (Deluca et al, 1983, pmid:6347695). It was demonstrated that this antibody can be utilized in the immunofluorescence staining of trout head kidney, spleen and thymus cells (Deluca et al, 1983, pmid:6347695). Furthermore, it has been shown that this antibody can be used in the immunoprecipitation of trout IgM (Deluca et al, 1983, pmid:6347695). It is used in western blots as a negative against catfish IgL σ (Edholm et al, 2010, pmid:20149930) and MHC class II β (Moulana et al, 2008, pmid:18676026). Finally, 1.14 antibody can be used to detect trout antibody in an ELISA (Costa et al, 2011, pmid: 21641928).

Antibody First Published in: Dominick DeLuca, Melanie Wilson and Gregory W. Warr Lymphocyte heterogeneity in the trout, *Salmo gairdneri*, defined with monoclonal antibodies to IgM* Eur. J. Immunol 13: 546-551. [PMID:6347695](#)

Note on publication: It describes the generation of the antibody and its use in research on the trout immune system.

Product Form

Size: 200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.