

## Anti-IgM [1.14] Bulk Size Ab02046-23.0-BT

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 or 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  $\sigma$  (Edholm et al, 2010, pmid:20149930) and MHC class II $\beta$  (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:** 1 mg Purified antibody in bulk size.

**Purification:** Protein A affinity purified

**Supplied In:** PBS only.

**Storage Recommendation:** Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. 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.