

# Recombinant Human IgM protein (Tagged) ab158748

1 Image

Description

Product name	Recombinant Human IgM protein (Tagged)		
Purity	>= 80 % Purified via GST Tag. Glutathione Sepharose		
Expression system	Wheat germ		
Accession	<b><u>P01871-2</u></b>		
Protein length	Full length protein		
Animal free	No		
Nature	Recombinant		
Species	Human		
Sequence	MNYWGWQRTLVTVSSGSASAPTLFPLVSCENSPSDTSSV AVGCLAQDFLP DSITFSWKYKNNSDISSTRGFPSVLRGGKYAATSQVLLPS KDVMQGTDEH VVCKVQHPNGNKEKNVPLPVIAELPPKVSFVPPRDGFF GNPRKSKLICQ ATGFSPRQIQVSWLREGKQVGSGVTTDQVQAEAKESGPT TYKVTSTLTIK ESDWLGQSMFTCRVDHRGLTFQQNASSMCVPDQDPAIR VFAIPPSFASIF LTKSTKLTCLVTDLTITYDSVTISWTRQNGEAVKHTHNISESH PNATFSAV GEASICEDDWNSGERFTCTVTHDLPSPKQTISRPKGVA LHRPDVYLLP PAREQLNLRESATITCLVTGFSPADV FVQWMQRGQPLSP EKYVTSAPMPE PQAPGRYFAHSILTVSEEEWNTGETYTCVVAHEALPNRV TERTVDKSTEG EVSADDEEGFENLWATASTFNLFLLSLFYSTTVTLFKVK		
Amino acids	1 to 474		
Tags	GST tag N-Terminus		

Specifications

Our **Abpromise guarantee** covers the use of **ab158748** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	ELISA
	Western blot
<b>Form</b>	Liquid

## Preparation and Storage

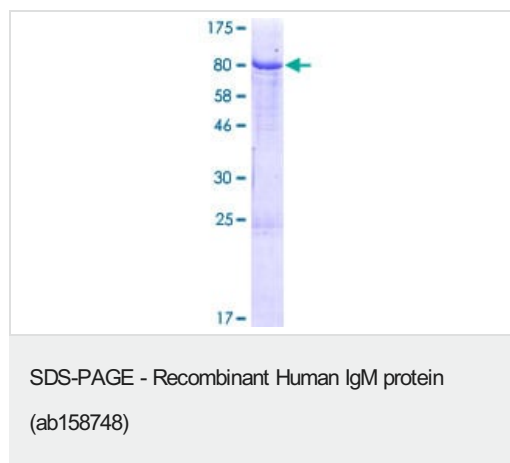
<b>Stability and Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.
	pH: 8.00
	Constituents: 0.31% Glutathione, 0.79% Tris HCl

## General Info

<b>Relevance</b>	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.
------------------	--

<b>Cellular localization</b>	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



ab158748 on a 12.5% SDS-PAGE stained with Coomassie Blue.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

### **Our Abpromise to you: Quality guaranteed and expert technical support**

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

### **Terms and conditions**

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors