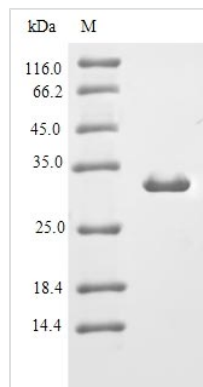




# Recombinant Mouse Immunoglobulin J chain (Jchain)

<b>Product Code</b>	CSB-EP011337MO
<b>Relevance</b>	Serves to link two monomer units of either IgM or IgA. In the case of IgM, the J chain-joined dimer is a nucleating unit for the IgM pentamer, and in the case of IgA it induces larger polymers. It also help to bind these immunoglobulins to secretory component.
<b>Abbreviation</b>	Recombinant Mouse Jchain protein
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	P01592
<b>Product Type</b>	Recombinant Proteins
<b>Immunogen Species</b>	Mus musculus (Mouse)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	GDDEATILADNKKCMCTRVTSRIIPSTEDPNEDIVERNIRIVVPLNNRENISDPTSP LRRNFVYHLSDVCKKCDPVEVELEDQVVTATQSNICNEDDGVPETCYMYDRN KCYTTMVPLRYHGETKMVQAALTPDSCYPD
<b>Research Area</b>	Immunology
<b>Source</b>	E.coli
<b>Target Names</b>	Jchain
<b>Protein Names</b>	Recommended name: Immunoglobulin J chain
<b>Expression Region</b>	22-159aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-SUMO-tagged
<b>Mol. Weight</b>	31.7kDa
<b>Protein Length</b>	Full Length of Mature Protein
<b>Image</b>	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

## Description

CUSABIO synthesized the recombinant gene by integrating the N-terminal 6xHis-SUMO tag sequence into the targeted gene encoding the 22-159aa of the mouse Jchain. The synthesized gene was subsequently cloned into an expression vector. After cloning, the expression vector was introduced into the E.coli for expression. The product was purified to obtain the recombinant mouse Jchain protein carrying N-terminal 6xHis-SUMO tag. The SDS-PAGE assayed the purity of this recombinant Jchain protein greater than 90%. This Jchain protein migrated along the gel to a band of about 30 kDa molecular weight.

Immunoglobulin J chain is a protein encoding by a gene named Jchain in mouse and a gene named JCHAIN in human. This protein is a protein component of the antibodies IgM and IgA. The J chain-joined dimer is a nucleating unit for the IgM pentamer. And it induces dimers and/or larger polymers in the case of IgA. Moreover, it also helps to bind these immunoglobulins to secretory component. The diseases involved JCHAIN include Alpha Chain Disease and Climatic Droplet Keratopathy. Additionally, a study have reported that the upregulation of JCHAIN was likely related to tumor aggression, as studied in a cohort of patients with acute lymphoblastic leukemia (ALL).

## Shelf Life

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