SUITE 203, 17 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-416-1478 Fax: 1-631-207-8356
Email: info@creative-biolabs.com
www.creative-biolabs.com

# Product Information

## MemDX™ Membrane Protein Human MS4A2 (Membrane spanning 4-domains A2) for Antibody Discovery

Cat. No.: **MP0717X**
This product is for research use only and is not intended for diagnostic use.

This product is a 52.9 kDa Human MS4A2 membrane protein expressed in *in vitro* wheat germ expression system. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

## Product Specifications

**Host Species**
Human

**Target Protein**
MS4A2

**Protein Length**
Full-length

**Molecular Weight**
52.9 kDa

**TMD**
4

**Sequence**
MDTESNRRANLALPQEPSSVPAFEVLEISPQEVSSGRLLKSASSPPLHTWLTVLKKEQEFLGVTQILTAMICLCFGTVVCSVLDISHIE

## Product Description

**Application**
Enzyme-linked Immunoabsorbent Assay, Western Blot (Recombinant protein), Antibody Production, Protein Array

**Expression Systems**
*in vitro* wheat germ expression system

**Tag**
GST-tag at N-terminal

**Form**
Liquid

**Purification**

Glutathione Sepharose 4 Fast Flow

**Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer

**Storage**

Store at +4°C for up to one week or several months at -80°C

## Target

**Target Protein**

MS4A2

**Full Name**

Membrane spanning 4-domains A2

**Introduction**

The allergic response involves the binding of allergen to receptor-bound IgE followed by cell activation and the release of mediators responsible for the manifestations of allergy. The IgE-receptor, a tetramer composed of an alpha, beta, and 2 disulfide-linked gamma chains, is found on the surface of mast cells and basophils. This gene encodes the beta subunit of the high affinity IgE receptor which is a member of the membrane-spanning 4A gene family. Members of this nascent protein family are characterized by common structural features and similar intron/exon splice boundaries and display unique expression patterns among hematopoietic cells and nonlymphoid tissues. This family member is localized to 11q12, among a cluster of membrane-spanning 4A gene family members. Alternative splicing results in multiple transcript variants encoding distinct proteins. Additional transcript variants have been described but require experimental validation

**Alternative Names**

APY; IGEL; IGER; ATOPY; FCERI; IGHER; MS4A1; FCER1B

**Gene ID**

2206

**UniProt ID**

Q01362

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