

RecomAb™

PSME1 recombinant monoclonal antibody, clone R03-1R2

Catalog # RAB05266 Size 100 uL

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human PSME1.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant protein corresponding to human PSME1
Theoretical MW (kDa)	Calculated MW: 29 kD
Reactivity	Human
Form	Liquid
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunofluorescence (1/50-1/200) Immunoprecipitation (1/20) Western Blot (1/500-1/1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150 mM NaCl, pH 7.4 (50% glycerol and 0.02% Sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot
- Immunocytochemistry

- Immunofluorescence
- Immunoprecipitation

Gene Info — PSME1

Entrez GeneID [5720](#)

Gene Name PSME1

Gene Alias IFI5111, MGC8628, PA28A, PA28alpha, REGalpha

Gene Description proteasome (prosome, macropain) activator subunit 1 (PA28 alpha)

Omim ID [600654](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure composed of 2 complexes, a 20S core and a 19S regulator. The 20S core is composed of 4 rings of 28 non-identical subunits; 2 rings are composed of 7 alpha subunits and 2 rings are composed of 7 beta subunits. The 19S regulator is composed of a base, which contains 6 ATPase subunits and 2 non-ATPase subunits, and a lid, which contains up to 10 non-ATPase subunits. Proteasomes are distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. An essential function of a modified proteasome, the immunoproteasome, is the processing of class I MHC peptides. The immunoproteasome contains an alternate regulator, referred to as the 11S regulator or PA28, that replaces the 19S regulator. Three subunits (alpha, beta and gamma) of the 11S regulator have been identified. This gene encodes the alpha subunit of the 11S regulator, one of the two 11S subunits that is induced by gamma-interferon. Three alpha and three beta subunits combine to form a heterohexameric ring. Two transcripts encoding different isoforms have been identified. [provided by RefSeq]

Other Designations

11S regulator complex alpha subunit|29-kD MCP activator subunit|activator of multicatalytic proteinase subunit 1|interferon gamma up-regulated I-5111 protein|interferon-gamma IEF SSP 5111|interferon-gamma-inducible protein 5111|proteasome activator subunit

Pathway

- [Antigen processing and presentation](#)
- [Proteasome](#)