

## ARG44002 anti-PSMF1 antibody

Package: 50 µg  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes PSMF1
Tested Reactivity	Hu
Tested Application	ELISA, FACS, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	PSMF1
Species	Human
Immunogen	Human PSMF1 recombinant protein
Conjugation	Un-conjugated
Alternate Names	PSMF1; Proteasome Inhibitor Subunit 1; PI31; Proteasome (Prosome, Macropain) Inhibitor Subunit 1 (PI31); Proteasome Inhibitor PI31 Subunit; Proteasome Inhibitor HP131 Subunit; HPI31

### Application Instructions

Application table	Application	Dilution
	ELISA	0.1-0.5 µg/ml
	FACS	1-3 µg/1x10 <sup>6</sup>
	WB	0.25-0.5 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

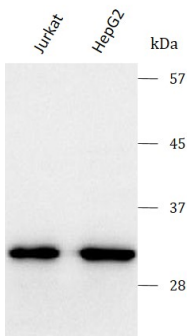
### Properties

Form	Liquid
Purification	Affinity purified with Immunogen.
Buffer	0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> and 4% Trehalose.
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Gene Symbol	PSMF1
Gene Full Name	Proteasome Inhibitor Subunit 1
Background	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. This gene encodes a protein that inhibits the activation of the proteasome by the 11S and 19S regulators. Alternative transcript variants have been identified for this gene.
Function	Plays an important role in control of proteasome function. Inhibits the hydrolysis of protein and peptide substrates by the 20S proteasome. Also inhibits the activation of the proteasome by the proteasome regulatory proteins PA700 and PA28.
Calculated Mw	30 kDa
PTM	Acetylation, Methylation, Phosphoprotein
Cellular Localization	Cytoplasm, Endoplasmic reticulum, Proteasome

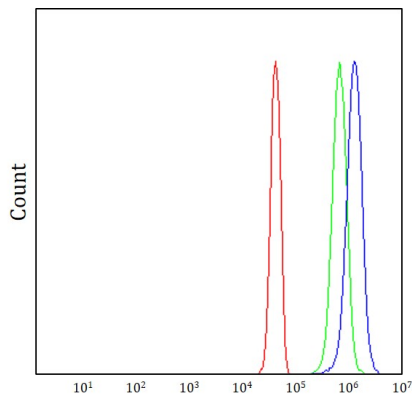
Images

ARG44002 anti-PSMF1 antibody WB image



Western blot: Jurkat and HepG2 stained with ARG44002 anti-PSMF1 antibody at 0.5  $\mu\text{g}/\text{mL}$  dilution.

ARG44002 anti-PSMF1 antibody FACS image



Flow Cytometry: JK cells stained with ARG44002 anti-PSMF1 antibody (blue) at 1  $\mu\text{g}/1 \times 10^6$  cells dilution.