



PA28γ Monoclonal Antibody

Catalog No	YP-Ab-03439
Isotype	IgG
Reactivity	Human;Mouse;Dog;Pig
Applications	WB;IF
Gene Name	PSME3
Protein Name	Proteasome activator complex subunit 3
Immunogen	Purified recombinant human PA28γ protein fragments expressed in E.coli.
Specificity	PA28γ Monoclonal Antibody detects endogenous levels of PA28γ protein.
Formulation	Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol.
Source	Monoclonal, Mouse
Purification	Affinity purification
Dilution	Western Blot: 1/1000 - 1/2000. Immunofluorescence: 1/100 - 1/500. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	PSME3; Proteasome activator complex subunit 3; 11S regulator complex subunit gamma; REG-gamma; Activator of multicatalytic protease subunit 3; Ki nuclear autoantigen; Proteasome activator 28 subunit gamma; PA28g; PA28gamma
Observed Band	
Cell Pathway	Nucleus . Cytoplasm . Localizes to the cytoplasm during mitosis following nuclear envelope breakdown at this distinct stage of the cell cycle which allows its interaction with MAP3K3 kinase. .
Tissue Specificity	B-cell,Embryonic kidney,Fetal brain,Human endometrium carcinoma cell line,L
Function	disease:Sera from patients with systemic lupus erythematosus often contain antibodies that react with the Ki antigen.,domain:The C-terminal sequences affect heptamer stability and proteasome affinity.,function:Subunit of the 11S REG-gamma (also called PA28-gamma) proteasome regulator, a donut-shaped homoheptamer which associates with the proteasome. 11S REG-gamma activates the trypsin-like catalytic subunit of the proteasome but inhibits the chymotrypsin-like and postglutamyl-preferring (PGPH) subunits. Facilitates the MDM2-TP53/p53 interaction which promotes ubiquitination- and MDM2-dependent proteasomal degradation of TP53/p53, limiting its accumulation and resulting in inhibited apoptosis after DNA damage. May also be involved in cell cycle regulation.,induction:Up-regulated in thyroid carcinoma cells.,PTM:Phosphorylated by MAP3K3.,similarity:Belongs to the PA28



family.,subcellular lo

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. 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) o

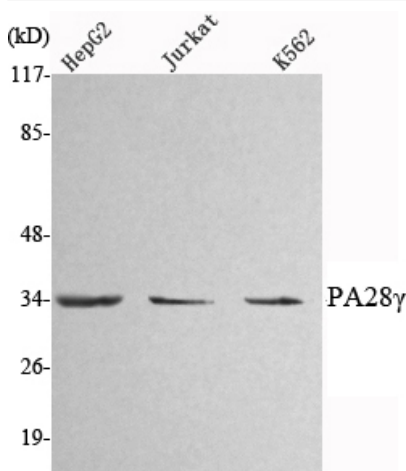
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis using PA28 γ Monoclonal Antibody against HepG2, Jurkat, K562 cell lysate.