

PA28 γ Monoclonal Antibody

Catalog No :	YM1070
Reactivity :	Human;Mouse;Dog;Pig
Applications :	WB;IF
Target :	PA28 γ
Fields :	>>Proteasome;>>Antigen processing and presentation;>>Hepatitis C
Gene Name :	PSME3
Protein Name :	Proteasome activator complex subunit 3
Human Gene Id :	10197
Human Swiss Prot No :	P61289
Mouse Gene Id :	19192
Mouse Swiss Prot No :	P61290
Immunogen :	Purified recombinant human PA28 γ protein fragments expressed in E.coli.
Specificity :	PA28 γ Monoclonal Antibody detects endogenous levels of PA28 γ protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse
Dilution :	WB 1:1000 - 1:2000. IF 1:100 - 1:500. Not yet tested in other applications.
Purification :	Affinity purification
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight : 30kD

Cell Pathway : Proteasome;Antigen processing and presentation;

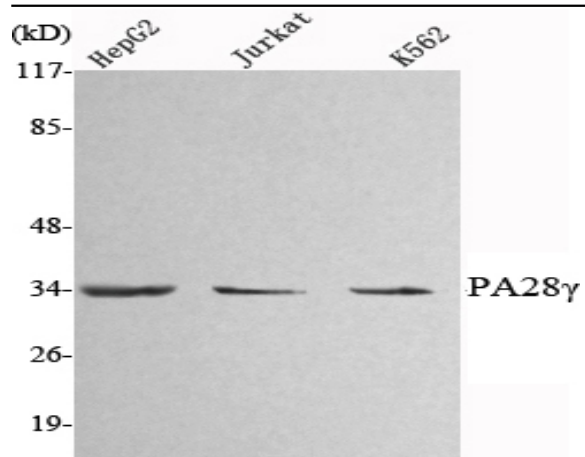
Background : The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure composed of 2 complexes, a 20S core and a 19S regulator. The 20S core is composed of 4 rings of 28 non-identical subunits; 2 rings are composed of 7 alpha subunits and 2 rings are composed of 7 beta 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

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

Subcellular Location : 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. .

Expression : B-cell,Embryonic kidney,Fetal brain,Human endometrium carcinoma cell line,L

Products Images



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