Data Sheet (Cat.No.TMAY-02764)

TargetMol

Anti-PSME1 Antibody (3F619)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	3F619
Purification:	Protein A

Applications

Verified Activity:	Anti-PSME1 rabbit monoclonal antibody at 1:500 dilution. -Lane A: HL60 Whole Cell Lysate. -Lane B: HeLa Whole Cell Lysate. -Lane C: MCF7 Whole Cell Lysate. -Lane D: Jurkat Whole Cell lysate. -Lysates/proteins at 30 µg per lane. -Secondary -Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution. -Developed using the Odyssey technique. -Performed under reducing conditions. -Predicted band size:29 kDa. -Observed band size:33 kDa
Application:	ELISA,WB
Recommended	WB: 1:500-1:2000; ELISA: 1:5000-1:10000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Human PA28A / PSME1 Protein (TMPY-03612)
Antigen Species:	Human
Synonyms:	REGalpha;PA28A;proteasome (prosome, macropain) activator subunit 1 (PA28 α);proteasome (prosome, macropain) activator subunit 1 (PA28 alpha);IFI5111;REGα;PA28alpha;PA28α

Research Background

PA28A, also known as PSME1, is a subunit of proteasome. The 26S proteasome multicatalytic proteinase complex has a highly ordered structure composed of 2 complexes, a 2S core and a 19S regulator. The 2S 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 1 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. PSME1 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.

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