

## Anti-PSME1 Antibody (6R428)

### Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	6R428
Purification:	Affinity-chromatography

### Applications

#### 1. Western Blot

-Positive WB detected in: Jurkat whole cell lysate, HepG2 whole cell lysate, MCF-7 whole cell lysate, A549 whole cell lysate, PC3 whole cell lysate, Hela whole cell lysate, Ntera-2 whole cell lysate, U251 whole cell lysate

-All lanes: PSME1 antibody at 1:2000

-Secondary: Goat polyclonal to rabbit IgG at 1/50000 dilution

-Predicted band size: 29, 27 kDa

-Observed band size: 28-30, 55-72 kDa

2. IHC image of TMAH-01011 diluted at 1:100 and staining in paraffin-embedded human small intestine tissue performed on a Leica Bond<sup>TM</sup> system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.05% DAB.

#### Verified Activity:

3. IHC image of TMAH-01011 diluted at 1:100 and staining in paraffin-embedded human colon cancer performed on a Leica Bond<sup>TM</sup> system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.05% DAB.

4. Immunofluorescence staining of HepG2 cell with TMAH-01011 at 1:50, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 518-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

5. Overlay Peak curve showing HepG2 cells stained with TMAH-01011 (red line) at 1:100. The cells were fixed in 4% formaldehyde and permeated by 0.2% TritonX-100. Then 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1 $\mu$ g/1 $\times$ 10<sup>6</sup> cells) for 45min at 4°C. The secondary antibody used was FITC-conjugated Goat Anti-rabbit IgG(H+L) at 1:200 dilution for 35min at 4°C. Control antibody (green line) was rabbit IgG (1 $\mu$ g/1 $\times$ 10<sup>6</sup> cells) used under the same conditions. Acquisition of >10,000 events was performed.

## A DRUG SCREENING EXPERT

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Application: ELISA, WB, IHC, IF, FCM

Recommended WB:1:500-1:2000; IHC:1:50-1:200; IF:1:50-1:200; FCM:1:50-1:200.

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### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

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### Antigen Details

Immunogen: A synthetic peptide: Human PSME1

Antigen Species: Human

Gene ID: 5720

Uniprot ID: Q06323

Synonyms: PA28 $\alpha$ ;proteasome (prosome, macropain) activator subunit 1 (PA28 alpha);IFI5111;REG $\alpha$ ; proteasome (prosome, macropain) activator subunit 1 (PA28  $\alpha$ );PA28A;REGalpha;PA28alpha

Biology Area: Cell biology

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### Research Background

Implicated in immunoproteasome assembly and required for efficient antigen processing. The PA28 activator complex enhances the generation of class I binding peptides by altering the cleavage pattern of the proteasome.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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