

# Product Datasheet

## Proteasome 19S 10B Antibody NB100-1483

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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**NB100-1483**

## Proteasome 19S 10B Antibody

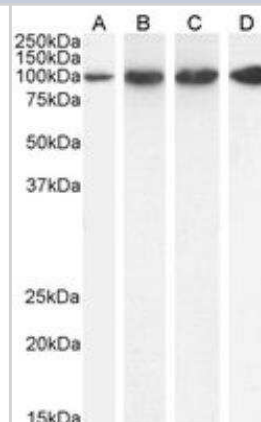
Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA

Product Description	
Host	Goat
Gene ID	5708
Gene Symbol	PSMD2
Species	Human, Mouse, Rat
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 26150391).
Immunogen	Peptide with sequence C-VILRKNPNYDL corresponding to C-Terminus according to NP_002799.3.

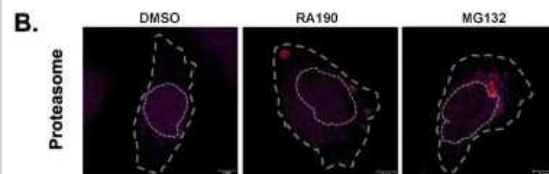
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Peptide ELISA, Proximity Ligation Assay
Recommended Dilutions	Western Blot 0.3 - 1 ug/mL, Flow Cytometry 10 ug/mL, Immunocytochemistry/ Immunofluorescence 10 ug/mL, Proximity Ligation Assay, Peptide ELISA Detection limit 1:64000
Application Notes	Western blot: Approx 100 kDa band observed in lysates of cell line A431 (calculated MW of 100 kDa according to NP_002799.3). Use in Immunocytochemistry/immunofluorescence and use in Proximity ligation assay reported in scientific literature (PMID: 26150391).

**Images**

Western Blot: Proteasome 19S 10B Antibody [NB100-1483] - Staining of HeLa (A), U251 (B), KNRK (C) with antibody at 1 ug/mL and NIH3T3 (D) cell lysate with antibody at 0.3 ug/mL (35 ug protein in RIPA buffer). Detected by chemiluminescence.



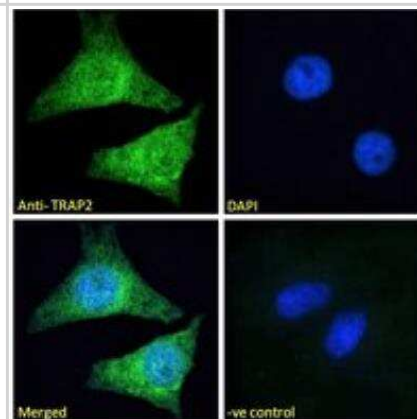
Immunocytochemistry/Immunofluorescence: Proteasome 19S 10B Antibody [NB100-1483] - HepG2 cells were treated with DMSO, 2uM RA190 for or 25uM MG132 for 30min. The cells were fixed, permeabilized and stained for proteasome. Image collected and cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/32375699/>) licensed under a CC-BY license.



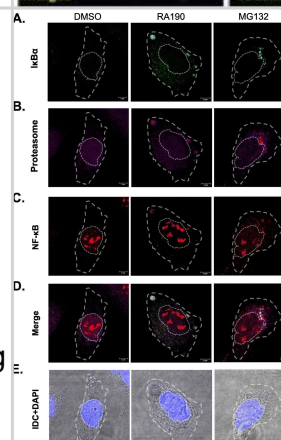
Flow Cytometry: Proteasome 19S 10B Antibody [NB100-1483] - Flow cytometric analysis of paraformaldehyde fixed HeLa cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (1 ug/mL). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.



Immunocytochemistry/Immunofluorescence: Proteasome 19S 10B Antibody [NB100-1483] - Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (2 ug/mL), showing cytoplasmic and some nuclear staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (2 ug/mL).



Immunocytochemistry/ Immunofluorescence: Proteasome 19S 10B Antibody [NB100-1483] - RA190 causes accumulation of I $\kappa$ B $\alpha$  & NF- $\kappa$ B in the cytoplasm, co-localized with proteasomes. HepG2 cells were treated with DMSO, 2  $\mu$ M RA190 for or 25  $\mu$ M MG132 for 30 min. The cells were fixed, permeabilized & stained for I $\kappa$ B $\alpha$ , proteasome, NF- $\kappa$ B, and viewed by confocal fluorescence microscopy individually, or merged, or e under phase contrast. a, b, c I $\kappa$ B $\alpha$  & NF- $\kappa$ B in RA190 & MG132-treated cells is significantly accumulated in cytoplasm, & apparently co-localized with the proteasome. The proportion of fluorescence in the cytoplasm versus the nucleus was quantified for I $\kappa$ B $\alpha$ , or g NF- $\kappa$ B Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/32375699/>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Soong R S, Anchoori R K et al. Bis-benzylidene Piperidone RA190 treatment of hepatocellular carcinoma via binding RPN13 and inhibiting NF-kappa B signaling. BMC Cancer 2020-06-05 [PMID: 32375699] (ICC/IF, Human)

Shyu YC, Soong RS, Ravi A, et al. Bis-benzylidene Piperidone RA190 Treatment of Hepatocellular Carcinoma via Binding RPN13 and Inhibiting NF-kappa B Signaling assets.researchsquare.com (ICC/IF, Mouse)

Luessen DJ, Sun H, McGinnis MM et al. Acute ethanol exposure reduces serotonin receptor 1A internalization by increasing ubiquitination and degradation of beta-arrestin2 J. Biol. Chem. 2019-07-31 [PMID: 31366729] (ICC/IF, Rat)

Kuai J, Wooters J, Hall JP et al. NAK is recruited to the TNFR1 complex in a TNFalpha-dependent manner and mediates the production of RANTES: identification of endogenous TNFR-interacting proteins by a proteomic approach. J Biol Chem 2004-12-17 [PMID: 15485837]

Gerhardt C, Lier JM, Burmuhl S et al. The transition zone protein Rpgrip1l regulates proteasomal activity at the primary cilium J. Cell Biol. 2015-07-06 [PMID: 26150391] (PLA, WB, ICC/IF, Human, Mouse)

Di Domenico F, Coccia R, Cocciolo A et al. Impairment of proteostasis network in Down syndrome prior to the development of Alzheimer's disease neuropathology: Redox proteomics analysis of Human brain. Biochim Biophys Acta 2013-04-17 [PMID: 23603808] (WB, Human)





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### **Products Related to NB100-1483**

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NBL1-14900	Proteasome 19S 10B Overexpression Lysate
HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat IgG Isotype Control

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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