PSMB4 (H-3): sc-390878

BACKGROUND

In eukaryotic cells, selective breakdown of cellular proteins is ensured by their ubiquitination and subsequent degradation by the 26S Proteasome. The 26S Proteasome is a protease complex that selectively breaks down proteins that have been modified by polyubiquitin chains. It is made up of two multi-subunit complexes: the 20S Proteasome chamber, which serves as the proteolytic core of the complex, and two 19S regulatory particles which recognize and unfold ubiquitinated proteins. The 20S Proteasome chamber contains α subunits (which are structural) and β subunits (which are predominantly catalytic). The outer two rings in the proteasome consist of seven α subunits each, and the inner two rings each consist of seven β subunits. PSMB4 (proteasome (prosome, macropain) subunit, β type, 4), also known as HN3, PROS26, macropain β chain, proteasome β chain or proteasome subunit 3, is a β subunit of the 20S Proteasome.

REFERENCES

2. Orłowski, M., et al. 1997. Reactions of [14C]-3,4-dichloroisocoumarin catalytic). The outer two rings in the proteasome consist of seven α subunits each, and the inner two rings each consist of seven β subunits. PSMB4 (proteasome (prosome, macropain) subunit, β type, 4), also known as HN3, PROS26, macropain β chain, proteasome β chain or proteasome subunit 3, is a β subunit of the 20S Proteasome.

APPLICATIONS

PSMB4 (H-3) is recommended for detection of PSMB4 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

PSMB4 (H-3) is also recommended for detection of PSMB4 in additional species, including bovine.

CHROMOSOMAL LOCATION

Genetic locus: PSMB4 (human) mapping to 1q21.3; Psmb4 (mouse) mapping to 3 F2.1.

SOURCE

PSMB4 (H-3) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 245-262 at the C-terminus of PSMB4 of human origin.

PRODUCT

Each vial contains 200 µg IgG2a kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

PSMB4 (H-3) is available conjugated to agarose (sc-390878 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-390878 HRP), 200 µg/ml, for WB, (HCP) and ELISA; to either phycoerythrin (sc-390878 PE), fluorescein (sc-390878 FITC), Alexa Fluor® 488 (sc-390878 AF488), Alexa Fluor® 545 (sc-390878 AF545), Alexa Fluor® 594 (sc-390878 AF594) or Alexa Fluor® B47 (sc-390878 AF647), 200 µg/ml, for WB (RGB), IF, HCP and FCM; and to either Alexa Fluor® 680 (sc-390878 AF680) or Alexa Fluor® 790 (sc-390878 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-390878 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA

RESEARCH USE

For research use only, not for use in diagnostic procedures.

REFERENCES


CHROMOSOMAL LOCATION

Genetic locus: PSMB4 (human) mapping to 1q21.3; Psmb4 (mouse) mapping to 3 F2.1.

SOURCE

PSMB4 (H-3) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 245-262 at the C-terminus of PSMB4 of human origin.

PRODUCT

Each vial contains 200 µg IgG2a kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

PSMB4 (H-3) is available conjugated to agarose (sc-390878 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-390878 HRP), 200 µg/ml, for WB, (HCP) and ELISA; to either phycoerythrin (sc-390878 PE), fluorescein (sc-390878 FITC), Alexa Fluor® 488 (sc-390878 AF488), Alexa Fluor® 545 (sc-390878 AF545), Alexa Fluor® 594 (sc-390878 AF594) or Alexa Fluor® B47 (sc-390878 AF647), 200 µg/ml, for WB (RGB), IF, HCP and FCM; and to either Alexa Fluor® 680 (sc-390878 AF680) or Alexa Fluor® 790 (sc-390878 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-390878 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA

RESEARCH USE

For research use only, not for use in diagnostic procedures.