ARG43995
anti-PSMC5 / TRIP1 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes PSMC5 / TRIP1
Tested Reactivity	Hu, Ms, Rat
Tested Application	ELISA, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	PSMC5 / TRIP1
Species	Human
Immunogen	Human PSMC5 / TRIP1 recombinant protein
Conjugation	Un-conjugated
Alternate Names	PSMC5; Proteasome 26S Subunit, ATPase 5; P45/SUG; TRIP1; SUG1; TBP10; SUG-1; RPT6; P45; S8; Proteasome (Prosome, Macropain) 26S Subunit, ATPase, 5; Thyroid Hormone Receptor-Interacting Protein 1; 26S Proteasome AAA-ATPase Subunit RPT6; 26S Proteasome Regulatory Subunit 8; Proteasome Subunit P45; 26S Protease Regulatory Subunit 8; Testicular Tissue Protein Li 149; Proteasome 26S ATPase Subunit 5; Proteasome 26S Subunit ATPase 5; Tat-Binding Protein Homolog 10; Thyroid Receptor Interactor 1; MSUG1 Protein

Application Instructions

Application table

Application	Dilution
ELISA	0.1-0.5 µg/ml
WB	0.25-0.5 µg/ml

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

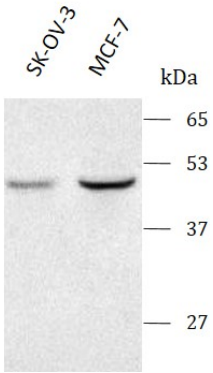
Form	Liquid
Purification	Affinity purified with Immunogen.
Buffer	0.9% NaCl, 0.2% Na2HPO4 and 4% Trehalose.
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

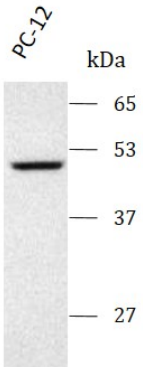
Gene Symbol	PSMC5
Gene Full Name	Proteasome 26S Subunit, ATPase 5
Background	The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure composed of 2 complexes, a 20S core and a 19S regulator. The 20S core is composed of 4 rings of 28 non-identical subunits; 2 rings are 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. This gene encodes one of the ATPase subunits, a member of the triple-A family of ATPases which have a chaperone-like activity. In addition to participation in proteasome functions, this subunit may participate in transcriptional regulation since it has been shown to interact with the thyroid hormone receptor and retinoid X receptor-alpha. Two transcript variants encoding different isoforms have been found for this gene.
Function	Component of the 26S proteasome, a multiprotein complex involved in the ATP-dependent degradation of ubiquitinated proteins. This complex plays a key role in the maintenance of protein homeostasis by removing misfolded or damaged proteins, which could impair cellular functions, and by removing proteins whose functions are no longer required. Therefore, the proteasome participates in numerous cellular processes, including cell cycle progression, apoptosis, or DNA damage repair. PSMC5 belongs to the heterohexameric ring of AAA (ATPases associated with diverse cellular activities) proteins that unfolds ubiquitinated target proteins that are concurrently translocated into a proteolytic chamber and degraded into peptides.
Calculated Mw	46 kDa
PTM	Acetylation, Phosphoprotein
Cellular Localization	Cytoplasm, Nucleus, Proteasome

Images



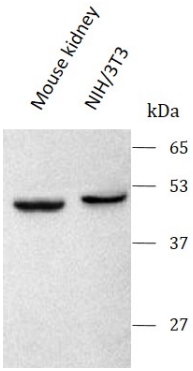
ARG43995 anti-PSMC5 / TRIP1 antibody WB image

Western blot: SK-OV-3 and MCF-7 stained with ARG43995 anti-PSMC5 / TRIP1 antibody at 0.5 µg/mL dilution.



ARG43995 anti-PSMC5 / TRIP1 antibody WB image

Western blot: PC-12 stained with ARG43995 anti-PSMC5 / TRIP1 antibody at 0.5 µg/mL dilution.



ARG43995 anti-PSMC5 / TRIP1 antibody WB image

Western blot: Mouse kidney and NIH/3T3 stained with ARG43995 anti-PSMC5 / TRIP1 antibody at 0.5 µg/mL dilution.