

ARG57155 anti-PSMD10 antibody [1F4]

Package: 50 µl
Store at: -20°C

Summary

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|---------------------|--|
| Product Description | Mouse Monoclonal antibody [1F4] recognizes PSMD10 |
| Tested Reactivity | Hu |
| Tested Application | WB |
| Host | Mouse |
| Clonality | Monoclonal |
| Clone | 1F4 |
| Isotype | IgG1, kappa |
| Target Name | PSMD10 |
| Species | Human |
| Immunogen | Recombinant fragment around aa. 1-226 of Human PSMD10 |
| Conjugation | Un-conjugated |
| Alternate Names | 26S proteasome non-ATPase regulatory subunit 10; Gankyrin; p28(GANK); 26S proteasome regulatory subunit p28; GANK; p28; dJ889N15.2 |

Application Instructions

| Application table | Application | Dilution |
|-------------------|-------------|-----------------|
| | WB | Assay-dependent |

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

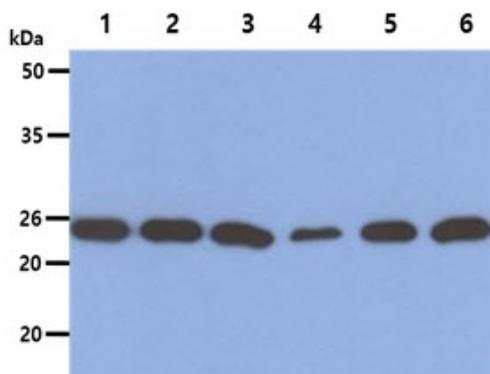
Properties

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|---------------------|---|
| Form | Liquid |
| Purification | Purification with Protein A. |
| Buffer | PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol. |
| Preservative | 0.02% Sodium azide |
| Stabilizer | 10% Glycerol |
| Concentration | 1 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. 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

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|----------------|--|
| Database links | GeneID: 5716 Human Swiss-port # O75832 Human |
| Gene Symbol | PSMD10 |
| Gene Full Name | proteasome 26S subunit, non-ATPase 10 |
| Background | This gene encodes a subunit of the PA700/19S complex, which is the regulatory component of the 26S proteasome. The 26S proteasome complex is required for ubiquitin-dependent protein degradation. This protein is a non-ATPase subunit that may be involved in protein-protein interactions. Aberrant expression of this gene may play a role in tumorigenesis. Two transcripts encoding different isoforms have been described. Pseudogenes have been identified on chromosomes 3 and 20.[provided by RefSeq, Mar 2011] |
| Function | <p>Acts as a chaperone during the assembly of the 26S proteasome, specifically of the PA700/19S regulatory complex (RC). In the initial step of the base subcomplex assembly is part of an intermediate PSMD10:PSMC4:PSMC5:PAAF1 module which probably assembles with a PSMD5:PSMC2:PSMC1:PSMD2 module. Independently of the proteasome, regulates EGF-induced AKT activation through inhibition of the RHOA/ROCK/PTEN pathway, leading to prolonged AKT activation. Plays an important role in RAS-induced tumorigenesis.</p> <p>Acts as an proto-oncoprotein by being involved in negative regulation of tumor suppressors RB1 and p53/TP53. Overexpression is leading to phosphorylation of RB1 and proteasomal degradation of RB1. Regulates CDK4-mediated phosphorylation of RB1 by competing with CDKN2A for binding with CDK4. Facilitates binding of MDM2 to p53/TP53 and the mono- and polyubiquitination of p53/TP53 by MDM2 suggesting a function in targeting the TP53:MDM2 complex to the 26S proteasome. Involved in p53-independent apoptosis. Involved in regulation of NF-kappa-B by retaining it in the cytoplasm. Binds to the NF-kappa-B component RELA and accelerates its XPO1/CRM1-mediated nuclear export. [UniProt]</p> |
| Calculated Mw | 24 kDa |

Images



ARG57155 anti-PSMD10 antibody [1F4] WB image

Western blot: 40 µg of 1) A549, 2) PC3, 3) K562, 4) HepG2, 5) HeLa, and 6) Jurkat cell lysates stained with ARG57155 anti-PSMD10 antibody [1F4] at 1:1000.