

# Product datasheet

info@arigobio.com

# ARG55001 anti-USP25 antibody

Package: 100 μl Store at: -20°C

### **Summary**

Product Description Mouse Monoclonal antibody recognizes USP25

Tested Reactivity Hu
Tested Application WB

Host Mouse

**Clonality** Monoclonal

Clone 1277CT376.106.171

Isotype IgG1, kappa

Target Name USP25
Species Human

Immunogen Recombinant protein from Human USP25.

Conjugation Un-conjugated

Alternate Names USP on chromosome 21; Ubiquitin-specific-processing protease 25; Ubiquitin carboxyl-terminal

hydrolase 25; Deubiquitinating enzyme 25; Ubiquitin thioesterase 25; USP21; EC 3.4.19.12

## **Application Instructions**

Application table	Application	Dilution
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Daudi	

#### **Properties**

Form Liquid

Purification Purification with Protein G.

Buffer PBS and 0.09% (W/V) Sodium azide

Preservative 0.09% (W/V) Sodium azide

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**

Database links GenelD: 29761 Human

Swiss-port # Q9UHP3 Human

Gene Symbol USP25

Gene Full Name ubiquitin specific peptidase 25

Background Ubiquitin (MIM 191339) is a highly conserved 76-amino acid protein involved in regulation of

intracellular protein breakdown, cell cycle regulation, and stress response. Ubiquitin is released from degraded proteins by disassembly of the polyubiquitin chains, which is mediated by ubiquitin-specific proteases (USPs), such as USP25 (Valero et al., 1999 [PubMed 10644437]).[supplied by OMIM, Mar

2008]

Function Deubiquitinating enzyme that hydrolyzes ubiquitin moieties conjugated to substrates and thus,

functions to process newly synthesized Ubiquitin, to recycle ubiquitin molecules or to edit polyubiquitin

chains and prevents proteasomal degradation of substrates. Hydrolyzes both 'Lys-48'- and

'Lys-63'-linked tetraubiquitin chains.

The muscle-specific isoform (USP25m) may have a role in the regulation of muscular differentiation and

function. [UniProt]

Research Area Cell Biology and Cellular Response antibody; Gene Regulation antibody

Calculated Mw 122 kDa

PTM Acetylated.

Sumoylation impairs binding to and hydrolysis of ubiquitin chains. Sumoylated preferentially with SUMO2 or SUMO3. Desumoylated by SENP1. Regulated by ubiquitination on the same residue. Preferentially monoubiquitinated but can also be polyubiquitinated. Autodeubiquitinated.

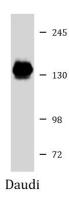
Ubiquitination activates the enzymatic activity either by preventing sumoylation or by allowing novel

interactions.

Phosphorylation in the C-terminal by SYK regulates USP25 cellular levels.

Cellular Localization Cytoplasm

#### **Images**



#### ARG55001 anti-USP25 antibody WB image

Western blot: 35  $\mu\text{g}$  of Daudi cell lysate stained with ARG55001 anti-USP25 antibody at 1:1000 dilution.