

Product datasheet

Anti-USP25 antibody ab5092

Overview

Product name Anti-USP25 antibody

Description Goat polyclonal to USP25

 This product is a [fast track antibody](#). It has been affinity purified and shows high titre values against the immunizing peptide by ELISA. [Read the terms of use »](#)

Host species Goat

Species reactivity

Predicted to work with: Mouse, Human, Zebrafish 

Immunogen

Synthetic peptide:

RIMLSLSRTPADGR

, corresponding to amino acids 1074-1087 of Human USP 25.

 [Run BLAST with](#)

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Properties

Form Liquid

Storage instructions Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Storage buffer Preservative: 0.02% Sodium azide
Constituents: Tris buffered saline, 0.5% BSA

Purity Immunogen affinity purified

Purification notes Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Clonality Polyclonal

Isotype IgG

Applications

Application notes Tested in peptide ELISA.
Not tested in other applications.
Optimal dilutions/concentrations should be determined by the end user.

WB: No signal obtained yet but low background observed in Human Kidney and Testis extracts at up to 1 µg/ml. We would appreciate any feedback from people in the field - have any results been reported with other antibodies/lysates?

Target	
Function	<p>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.</p> <p>The muscle-specific isoform (USP25m) may have a role in the regulation of muscular differentiation and function.</p>
Tissue specificity	<p>Isoform USB25a is found in most adult and fetal tissues; expression is moderately high in testis, pancreas, kidney, skeletal muscle, liver, lung, placenta, brain, heart, but very low in peripheral blood, colon, small intestine, ovary, prostate, thymus and spleen. Isoform USB25b is found in all tissues except heart and skeletal muscle. Isoform USB25m is heart and skeletal muscle specific.</p>
Sequence similarities	<p>Belongs to the peptidase C19 family.</p> <p>Contains 1 UBA-like domain.</p> <p>Contains 2 UIM (ubiquitin-interacting motif) repeats.</p>
Post-translational modifications	<p>Acetylated.</p> <p>Sumoylation impairs binding to and hydrolysis of ubiquitin chains. Sumoylated preferentially by SUMO2 or SUMO3. Desumoylated by SENP1. Regulated by ubiquitination on the same residue. Preferentially monoubiquitinated but can also be polyubiquitinated. Autodeubiquitinated.</p> <p>Ubiquitination activates the enzymatic activity either by preventing sumoylation or by allowing novel interactions.</p> <p>Phosphorylation in the C-terminal by SYK regulates USP25 cellular levels.</p>
Cellular localization	<p>Cytoplasm and Cytoplasm. Nucleus. Some transient punctuate nuclear location in myotubes during myocyte development.</p>

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