

USP25

Reactivity: Human

Tested applications: WB

Recommended Dilution: WB 1:500 - 1:1000

Calculated MW: 125kDa

Observed MW: Refer to Figures

Immunogen:

A synthetic peptide of human USP25

Storage Buffer:

Store at 4. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonym:

USP25; USP21 ;

Catalog #: A1477

Antibody Type:

Monoclonal Antibody

Species: Mouse

Gene ID: 29761

Isotype: IgG

Swiss Prot: Q9UHP3

Purity: Affinity purification

For research use only.

Background:

The ubiquitin (Ub) pathway involves three sequential enzymatic steps that facilitate the conjugation of Ub and Ub-like molecules to specific protein substrates. Through the use of a wide range of enzymes that can add or remove ubiquitin, the Ub pathway controls many intracellular processes such as signal transduction, transcriptional activation and cell cycle progression.

USP25 (ubiquitin specific peptidase 25), also known as USP21, is a 1087 amino acid member of the peptidase C19 family. Expressed at high amounts in pancreas, kidney, skeletal muscle, testis, liver, heart, brain and lung, USP25 associates with the 26S proteasome and functions as a deubiquitinating enzyme in the Ub proteolytic pathway. Due to alternative splicing events, USP25 is expressed as two short, ubiquitously expressed isoforms and one long, muscle-specific isoform. The long isoform of USP25 is upregulated in myogenesis and is implicated in the pathogenesis of severe myopathies.

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