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USP22 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP2148a

Specification

USP22 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q9UPT9

USP22 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 23326

Other Names
Ubiquitin carboxyl-terminal hydrolase 22, Deubiquitinating enzyme 22, Ubiquitin thioesterase 22, Ubiquitin-specific-processing protease 22, USP22, KIAA1063, USP3L

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP2148a was selected from the N-term region of human USP22 . A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

USP22 Antibody (N-term) Blocking Peptide - Protein Information

Name USP22

Synonyms KIAA1063, USP3L

Function
Histone deubiquitinating component of the transcription regulatory histone acetylation (HAT) complex SAGA. Catalyzes the deubiquitination of both histones H2A and H2B, thereby acting as a coactivator. Recruited to specific gene promoters by activators such as MYC, where it is required for transcription. Required for nuclear receptor-mediated transactivation and cell cycle progression.

Cellular Location
Nucleus {ECO:0000250|UniProtKB:Q5DU02}.

Tissue Location
Moderately expressed in various tissues including heart and skeletal muscle, and weakly expressed in lung and liver

USP22 Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

USP22 Antibody (N-term) Blocking Peptide - Images

USP22 Antibody (N-term) Blocking Peptide - Background

Modification of target proteins by ubiquitin participates in a wide array of biological functions. Proteins destined for degradation or processing via the 26 S proteasome are coupled to multiple copies of ubiquitin. However, attachment of ubiquitin or ubiquitin-related molecules may also result in changes in subcellular distribution or modification of protein activity. An additional level of ubiquitin regulation, deubiquitination, is catalyzed by proteases called deubiquitinating enzymes, which fall into four distinct families. Ubiquitin C-terminal hydrolases, ubiquitin-specific processing proteases (USPs),1 OTU-domain ubiquitin-aldehyde-binding proteins, and Jab1/Pad1/MPN-domain-containing metallo-enzymes. Among these four families, USPs represent the most widespread and represented deubiquitinating enzymes across evolution. USPs tend to release ubiquitin from a conjugated protein. They display similar catalytic domains containing conserved Cys and His boxes but divergent N-terminal and occasionally C-terminal extensions, which are thought to function in substrate recognition, subcellular localization, and protein-protein interactions.

USP22 Antibody (N-term) Blocking Peptide - References

Kikuno, R., et al., DNA Res. 6(3):197-205 (1999).