

Product datasheet

Anti-USP16 antibody ab4853

1 Image

Overview

Product name	Anti-USP16 antibody
Description	Goat polyclonal to USP16
Host species	Goat
Tested applications	Suitable for: IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat, Cow, Dog, Pig 
Immunogen	Synthetic peptide: GKKRRTKGKTVPIDD, corresponding to N terminal amino acids 2-15 of Human USP16. Run BLAST with ExPASy Run BLAST with NCBI
General notes	Gene Ontology terms - ubiquitin-specific protease activity; cysteine-type endopeptidase activity; cell cycle; ubiquitin-dependent protein catabolism; cytoplasm; ubiquitin C-terminal hydrolase activity; hydrolase activity.

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	pH: 7.30 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

Our [Abpromise guarantee](#) covers the use of **ab4853** in the following tested applications.

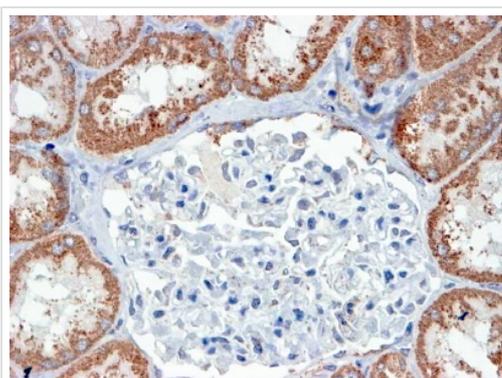
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use a concentration of 4 - 6 µg/ml. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Target

Function	Specifically deubiquitinates histone H2A, a specific tag for epigenetic transcriptional repression, thereby acting as a coactivator. Deubiquitination of histone H2A is a prerequisite for subsequent phosphorylation at 'Ser-10' of histone H3, and is required for chromosome segregation when cells enter into mitosis. Regulates Hox gene expression via histone H2A deubiquitination. Prefers nucleosomal substrates. Does not deubiquitinate histone H2B.
Tissue specificity	Present in all the tissues examined including fetal brain, lung, liver, kidney, and adult heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.
Involvement in disease	Note=A chromosomal aberration involving USP16 is a cause of Chronic myelomonocytic leukemia. Inversion inv(21) (q21;q22) with RUNX1/AML1.
Sequence similarities	Belongs to the peptidase C19 family. USP16 subfamily. Contains 1 UBP-type zinc finger.
Domain	The UBP-type zinc finger binds 3 zinc ions that form a pair of cross-braced ring fingers encapsulated within a third zinc finger in the primary structure. It recognizes the C-terminal tail of free ubiquitin.
Post-translational modifications	Phosphorylated at the onset of mitosis and dephosphorylated during the metaphase/anaphase transition. The phosphorylated form of the protein is also enzymatically active.
Cellular localization	Nucleus.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-USP16 antibody (ab4853)

ab4853 (4µg/ml) staining of paraffin embedded Human Human Kidney following steamed antigen retrieval with Tris/EDTA buffer pH 9 and HRP-staining shows textured cytoplasm staining in the convoluted tubules.

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