

USP4 Polyclonal Antibody

ALTERNATE NAMES: Deubiquitinating enzyme 4, Ubiquitin carboxyl-terminal hydrolase 4, Ubiquitin-specific-processing, protease 4, Ubiquitin thioesterase 4, Ubiquitous nuclear protein homolog, UNP, Unph, UNPH, Ubiquitin-specific-processing protease 4.

CATALOG #: 6131-50

AMOUNT: 50 µg

HOST: Chicken

ISOTYPE: IgG

IMMUNOGEN: Recombinant full length protein

PURIFICATION: Purified from Egg Yolk

FORM: Liquid

FORMULATION: 50 µg of antibody in PBS containing 10% glycerol

PREDICTED MW: 120 kDa

SPECIES REACTIVITY: Human

STORAGE CONDITIONS: Store at -20°C. Do not aliquot the antibody.

DESCRIPTION: Ubiquitinating enzymes (UBEs) catalyze protein ubiquitination, a reversible process countered by deubiquitinating enzyme (DUB) action. Five DUB subfamilies are recognized, including the USP, UCH, OTU, MJD, and JAMM enzymes. USP4 was originally identified during a survey of murine genes near the Mpv20 retroviral insertion site and initially referred to as Ubiquitous Nuclear Protein (UNP). Analysis of the mouse cDNA originally identified Usp4/Unp as a proto-oncogene related to the human tre-2/tre-17/USP6 proto-oncogene. Usp4/Unp was subsequently observed to contain the conserved Cys and His boxes of the UBP family as well as DUB activity. In a study of primary lung tumor tissue, it was observed that the human homolog of Usp4, USP4/UNPH, had elevated gene expression levels in small cell tumors and adenocarcinomas of the lung, suggesting a causative role for USP4 in neoplasia. Another recent study demonstrated overexpression of USP4 in several types of human cancer and that USP4 positively contributes to cell transformation by negatively regulating p53 levels. Both murine and human USP4 have been shown to interact with the Rb family of tumor suppressor proteins, providing additional mechanistic evidence of a role for USP4 in cellular transformation.

SPECIFICITY: Human

APPLICATION: Western blot: Robust detection of 100 ng of recombinant protein was possible when antibody was used at a final concentration of 5 µg/mL

Note: *This information is only intended as a guide. The optimal dilutions must be determined by the user*

RELATED PRODUCTS:

- USP5 Polyclonal Antibody (Cat. No. 6132-50)
- USP8 Polyclonal Antibody (Cat. No. 6133-50)
- USP14 Polyclonal Antibody (Cat. No. 6134-50)
- USP15 Polyclonal Antibody (Cat. No. 6135-50)
- USP34 Core Polyclonal Antibody (Cat. No. 6136-50)
- UCHL3 Polyclonal Antibody (Cat. No. 6128-50)
- UCHL5 Polyclonal Antibody (Cat. No. 6129-50)
- UCHL1 Polyclonal Antibody (Cat. No. 6130-50)

FOR RESEARCH USE ONLY! Not to be used on humans.