

USP8 Polyclonal Antibody

ALTERNATE NAMES: Deubiquitinating enzyme 8, hUBPy, HumORF8, KIAA0055, MGC129718, Ubiquitin carboxyl-terminal hydrolase 8, Ubiquitin-specific processing protease 8, Ubiquitin thioesterase 8, UBP, Ubiquitin Specific Protease 8.

CATALOG #: 6133-50

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: 127 kDa (With tags)

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. The deubiquitinating enzyme ubiquitin-specific protease 8 (USP8/UBPy) is a cysteine protease belonging to the USP/UBP subfamily. Research studies have shown that USP8 is an essential growth-regulated enzyme indispensable for cell proliferation and survival. Indeed, conditional knock-out of murine USP8 was shown to promote a dramatic loss in expression of receptor tyrosine kinases, including EGFR, ErbB3, and c-Met. In agreement with these findings, USP8 inactivation leads to enhanced ubiquitination of ligand-activated EGFR. Furthermore, phosphorylation of USP8 at Ser680 results in its binding of 14-3-3, catalytic inactivation, and reduced EGFR deubiquitination. It appears as though USP8, in conjunction with components of the ESCRT-0 complex, plays an integral role in the early endosomal sorting machinery that functions to protect EGFR from lysosomal degradation.

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:

- USP4 Polyclonal Antibody (Cat. No. 6131-50)
- USP5 Polyclonal Antibody (Cat. No. 6132-50)
- 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)

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