

## USP8 Antibody

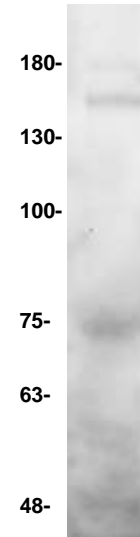
<b>CATALOG NO:</b>	6658-30T      30 µg (Trial size) 6658-100      100 µg
<b>ALTERNATE NAMES:</b>	Deubiquitinating enzyme 8, hUBPy, HumORF8, KIAA0055, MGC129718, Ubiquitin carboxyl-terminal hydrolase 8, Ubiquitin-specific processing protease 8, Ubiquitin thioesterase 8, UBP, Ubiquitin Specific Protease 8.
<b>HOST:</b>	Rabbit
<b>ISOTYPE:</b>	IgG
<b>IMMUNOGEN:</b>	Synthetic peptide corresponding to an internal sequence of human USP 8
<b>INTERNAL ID:</b>	BV-L43
<b>PURIFICATION:</b>	Affinity purified rabbit IgG
<b>FORM:</b>	Liquid
<b>FORMULATION:</b>	0.5 mg/ml of antibody phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 5 mM EDTA and 0.03% proclin.
<b>SPECIES REACTIVITY:</b>	Human
<b>STORAGE CONDITIONS:</b>	Store for 1 year at -20°C from date of shipment. Avoid repeated freeze/thaw cycles.

**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.

**APPLICATION:** Western blot: 1-4 µg/ml.

**SPECIFICITY:** The antibody detects the full length and the cleaved fragment of human USP 8. Reactivity to other species has not been determined.

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



Western blot of USP8 antibody with Jurkat cell lysate.

### RELATED PRODUCTS:

- USP8 Blocking Peptide (**Cat. No. 6658BP-50**)
- 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**)

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