

## USP5 Polyclonal Antibody

<b>ALTERNATE NAMES:</b>	Deubiquitinating enzyme 5, Isopeptidase T, IsoT, ISOT, Ubiquitin carboxyl-terminal hydrolase 5, Ubiquitin-specific-processing protease 5, Ubiquitin thioesterase 5, Ubiquitin-specific-processing protease 5.
<b>CATALOG #:</b>	6132-50
<b>AMOUNT:</b>	50 µg
<b>HOST:</b>	Chicken
<b>ISOTYPE:</b>	IgG
<b>IMMUNOGEN:</b>	Recombinant full length protein
<b>PURIFICATION:</b>	Purified from Egg Yolk
<b>FORM:</b>	Liquid
<b>FORMULATION:</b>	50 µg of antibody in PBS containing 10% glycerol
<b>PREDICTED MW:</b>	94 kDa
<b>SPECIES REACTIVITY:</b>	Human
<b>STORAGE CONDITIONS:</b>	Store at -20°C. Do not aliquot the antibody.

**DESCRIPTION:** The ubiquitin (Ub) pathway involves three sequential enzymatic steps that facilitate the conjugation of Ub and Ub-like molecules to specific protein substrates. Through the use of a wide range of enzymes that can add or remove ubiquitin, the Ub pathway controls many intracellular processes such as signal transduction, transcriptional activation and cell cycle progression. USP5 (ubiquitin specific peptidase 5), also known as ISOT (isopeptidase T), is a 858 amino acid zinc-binding deubiquitinating enzyme that participates in the Ub pathway. A member of the peptidase C19 family, the catalytic activity of USP5 involves a combination of the ubiquitin carboxyl-terminal thiolester and water to produce ubiquitin and a thiol. USP5 contains two UBA domains and one UBP-type zinc finger. USP5 is responsible for disassembling unanchored polyubiquitin chains in the cell. Full length USP5 mediated cleavage of Ub-PLA2 is significantly enhanced is enhanced by low concentrations of mono ubiquitin.

**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)
- 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.**