

USP5 Polyclonal Antibody

Catalog number: 10473-1-AP

Size: 45 µg/150 µl

Source: Rabbit

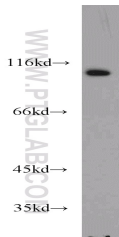
Isotype: IgG

Synonyms:

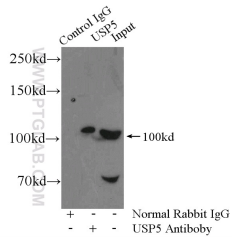
USP5; Deubiquitinating enzyme

5, Isopeptidase T, ISOT,

Ubiquitin thiolesterase 5, USP5



A549 cells were subjected to SDS PAGE followed by western blot with 10473-1-AP (USP5 antibody) at dilution of 1:1000



IP Result of anti-USP5 (IP:10473-1-AP, 4µg; Detection:10473-1-AP 1:1000) with mouse brain tissue lysate 4000µg.

Background

USP5, also named as ISOT, belongs to the peptidase C19 family. Knock-down of USP5 causes the accumulation of TP53/p53 and an increase in TP53/p53 transcriptional activity because the unanchored polyubiquitin that accumulates is able to compete with ubiquitinated TP53/p53 but not with MDM2 for proteasomal recognition. USP5 is a potential target for p53 activating therapeutic agents for the treatment of cancer (PMID: 19098288). It is a novel proteasome associated protein (PMID: 19182904). USP5 cleaves linear and branched multiubiquitin polymers with a marked preference for branched polymers.

Applications

Tested applications:	ELISA, WB, IP
Cited applications:	ELISA, IF, WB
Species specificity:	Human, Mouse, Rat; other species not tested.
Cited species:	Human, mouse, rat, recombinant protein
Calculated USP5 MW:	93.3 kDa
Observed USP5 MW:	96-100 kDa
Positive WB detected in	A549 cells, DU 145 cells, human colon tissue, human heart tissue, MDA-MB-453s cells, mouse brain tissue
Positive IP detected in	Mouse brain tissue
Recommended dilution:	WB: 1:500-1:5000 IP: 1:500-1:5000

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag0770
GenBank accession number:	BC004889
Gene ID (NCBI):	8078
Full name:	Ubiquitin specific peptidase 5 (isopeptidase T)

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.