

## Immunotag™ SENP6 Polyclonal Antibody

Antibody Specification	
Catalog No.	ITT4240
Product Description	Immunotag™ SENP6 Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	SENP6
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	IHC-p,ELISA
Recommended Dilution	Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human
Host Species	Rabbit
Immunogen	The antiserum was produced against synthesized peptide derived from human SENP6. AA range:1042-1091
Specificity	SENP6 Polyclonal Antibody detects endogenous levels of SENP6 protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	SENP6
Accession No.	Q9GZR1 Q6P7W0
Alternate Names	SENP6; KIAA0797; SSP1; SUSP1; FKSG6; Sentrin-specific protease 6; SUMO-1-specific protease 1; Sentrin/SUMO-specific protease SENP6

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Description	SUMO1/sentrin specific peptidase 6 (SEN6) Homo sapiens Ubiquitin-like molecules (UBLs), such as SUMO1 (UBL1; MIM 601912), are structurally related to ubiquitin (MIM 191339) and can be ligated to target proteins in a similar manner as ubiquitin. However, covalent attachment of UBLs does not result in degradation of the modified proteins. SUMO1 modification is implicated in the targeting of RANGAP1 (MIM 602362) to the nuclear pore complex, as well as in stabilization of I-kappa-B-alpha (NFKBIA; MIM 164008) from degradation by the 26S proteasome. Like ubiquitin, UBLs are synthesized as precursor proteins, with 1 or more amino acids following the C-terminal glycine-glycine residues of the mature UBL protein. Thus, the tail sequences of the UBL precursors need to be removed by UBL-specific proteases, such as SEN6, prior to their conjugation to target proteins (Kim et al., 2000 [PubMed 10799485]). SENPs also display isopeptidase activity for
Protein Expression	Brain, Epithelium, Testis, Tongue, Whole embryo,
Subcellular Localization	nucleoplasm, cytoplasm,
Protein Function	function: Protease that deconjugates SUMO1, SUMO2 and SUMO3 from targeted proteins. Does not seem to be involved in the processing of full-length SUMO proteins to their mature forms. Deconjugates SUMO1 from RXRA, leading to transcriptional activation. May act preferentially on substrates containing 3 or more SUMO2 or SUMO3 moieties., similarity: Belongs to the peptidase C48 family., subunit: Interacts with RXRA., tissue specificity: Highly expressed in reproductive organs, such as testis, ovary and prostate.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.