Human/Mouse/Rat NEDP1/SENP8 Alexa Fluor® 594-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF7760T
100 µg

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, rat NEDP1/SENP8 in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human NEDP1/SENP8 Met1-Lys212 (Thr207Ala) Accession # Q96LD8
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

NEDP1 (NEDD8-specific protease 1; also DEN1/Deneddylase-1 Protease, cysteine 2 and SENP8/Sentrin-specific protease 8) is a 24-26 kDa cytoplasmic cysteine protease that belongs to the Ulp/peptidase C48 family of enzymes. It is widely expressed, and is involved in NEDD8-associated ubiquitination. NEDD8 is a 9 kDa polypeptide that covalently binds to, and activates cullin-1, a molecule associated with a ubiquitin ligase complex. NEDD8-activated cullin promotes the transfer of ubiquitin to a limited number of target substrates involved in the cell cycle. This has the effect of controlling the levels of cell cycle regulators within the cell. NEDP1 influences these activities in two ways; first, it converts preNEDD8 into its mature form, and second, it deconjugates NEDD8 from its bound substrates. Human NEDP1 is 212 amino acids (aa) in length. It possesses an acetylated initiating methionine plus a protease domain that spans aa 11-174. Over an equivalent sequence, full-length human NEDP1 shares 92% aa sequence identity with mouse NEDP1. The mouse NEDP1 molecule contains a nine aa extension at the C-terminus not shared by the human molecule.

PRODUCT SPECIFIC NOTICES

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