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Datasheet for ABIN356785

## anti-SUMO4 antibody (Middle Region)

### 2 Images

#### Overview

Quantity:	0.4 mL
Target:	SUMO4
Binding Specificity:	Middle Region
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SUMO4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

#### Product Details

Immunogen:	This antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the center region of human SUMO4.
Isotype:	Ig Fraction
Specificity:	This antibody is specific to SUMO4 (Center).
Purification:	Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS

#### Target Details

Target:	SUMO4
Alternative Name:	SUMO4 / SMT3H4 ( <a href="#">SUMO4 Products</a> )

## Target Details

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**Background:** SUMO4 is a member of the SUMO gene family. This family of small ubiquitin-related modifiers covalently modify target lysines in proteins and control the target proteins' subcellular localization, stability, or activity. Upon oxidative stress, SUMO4 conjugates to various anti-oxidant enzymes, chaperones, and stress defense proteins. This protein may also conjugate to NFKBIA, TFAP2A and FOS, negatively regulating their transcriptional activity, and to NR3C1, positively regulating its transcriptional activity. Covalent attachment to SUMO4 substrates requires prior activation by the E1 complex SAE1-SAE2 and linkage to the E2 enzyme UBE2I. In contrast to SUMO1, SUMO2 and SUMO3, SUMO4 seems to be insensitive to sentrin-specific proteases due to the presence of Pro-90. This may impair processing to mature form and conjugation to substrates. SUMO4 is located in the cytoplasm and specifically modifies IKBA, leading to negative regulation of NF-kappa-B-dependent transcription of the IL12B gene. The M55V substitution has been associated with type I diabetes. Synonyms: SUMO-4, Small ubiquitin-like protein 4, Small ubiquitin-related modifier 4

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**Gene ID:** 387082, 9606

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**UniProt:** [Q6EEV6](#)

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## Application Details

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**Application Notes:** ELISA: 1/1,000. Western blot: 1/100-1/500. Immunohistochemistry on paraffin sections: 1/50-1/100.  
Other applications not tested.  
Optimal dilutions are dependent on conditions and should be determined by the user.

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**Restrictions:** For Research Use only

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## Handling

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**Format:** Liquid

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**Concentration:** 0.25 mg/mL

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**Buffer:** PBS containing 0.09 % (W/V) Sodium Azide as preservative

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**Preservative:** Sodium azide

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**Precaution of Use:** This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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**Handling Advice:** Avoid repeated freezing and thawing.

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**Storage:** 4 °C/-20 °C

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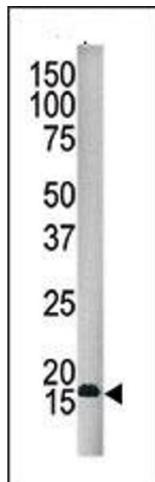
## Handling

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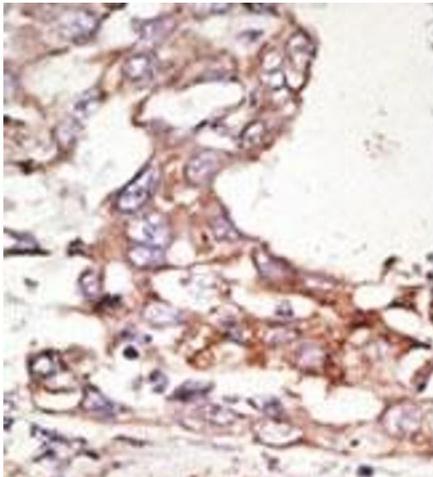
Storage Comment: Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.

## Images

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**Image 1.**



**Image 2.**