



Rabbit Anti-UBE2I/UBC9 antibody

SL8347R

Product Name:	UBE2I/UBC9
Chinese Name:	Ubiquitin蛋白连接酶E2I抗体
Alias:	p18; SUMO 1 protein ligase; SUMO conjugating enzyme UBC9; SUMO-1 conjugating enzyme; SUMO-1-protein ligase; SUMO-conjugating enzyme UBC9; SUMO-protein ligase; SUMO1 protein ligase; UBC9; UBC9_HUMAN; UBCE9; Ube2i; Ubiquitin carrier protein 9; Ubiquitin carrier protein; Ubiquitin carrier protein I; Ubiquitin conjugating enzyme 9; Ubiquitin conjugating enzyme UbcE2A; Ubiquitin like protein SUMO 1 conjugating enzyme; Ubiquitin protein ligase E2I; Ubiquitin-conjugating enzyme E2 I; Ubiquitin-protein ligase I.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:50-200 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	18kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human UBE2I:98-158/158
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	The modification of proteins with ubiquitin is an important cellular mechanism for

targeting abnormal or short-lived proteins for degradation. Ubiquitination involves at least three classes of enzymes: ubiquitin-activating enzymes, or E1s, ubiquitin-conjugating enzymes, or E2s, and ubiquitin-protein ligases, or E3s. This gene encodes a member of the E2 ubiquitin-conjugating enzyme family. Four alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008].

Function:

Accepts the ubiquitin-like proteins SUMO1, SUMO2, SUMO3 and SUMO4 from the UBLE1A-UBLE1B E1 complex and catalyzes their covalent attachment to other proteins with the help of an E3 ligase such as RANBP2 or CBX4. Can catalyze the formation of poly-SUMO chains. Necessary for sumoylation of FOXL2 and KAT5. Essential for nuclear architecture and chromosome segregation.

Subunit:

Interacts with HIPK1, HIPK2, PPM1J, RASD2 and TCF3 Interacts with NR2C1; the interaction promotes its sumoylation (By similarity). Forms a tight complex with RANGAP1 and RANBP2. Interacts with SIAH1 and PARP. Interacts with various transcription factors such as TFAP2A, TFAP2B, TFAP2C, AR, ETS1 and SOX4. Interacts with RWDD3; the interaction enhances the sumoylation of a number of proteins such as HIF1A and I-kappa-B. Interacts with DNMT1. Interacts with FOXL2. Forms a complex with SENP6 and UBE2I in response to UV irradiation. Interacts with human herpesvirus 6 IE2. Interacts with human adenovirus early E1A protein; this interaction interferes with polysumoylation (Probable). Interacts with DNM11 (via its GTPase and B domains); the interaction promotes sumoylation of DNM1L, mainly in its B domain. Interacts with PML-RARA oncoprotein (via the coiled-coiled domain); the interaction is required for sumoylation of the PML-RARA oncoprotein. Interacts with IPO13. Interacts with NFATC2IP; this inhibits formation of poly-SUMO chains.

Subcellular Location:

Nucleus. Cytoplasm. Mainly nuclear. In spermatocytes, localizes in synaptonemal complexes. Recruited by BCL11A into the nuclear body.

Tissue Specificity:

Expressed in heart, skeletal muscle, pancreas, kidney, liver, lung, placenta and brain. Also expressed in testis and thymus.

Similarity:

Belongs to the ubiquitin-conjugating enzyme family.

SWISS:

P63279

Gene ID:

7329

Database links:

[Entrez Gene: 7329](#)Human

[Entrez Gene: 100044900](#)Mouse

[Entrez Gene: 22196](#)Mouse

[Entrez Gene: 25573](#)Rat

[Omim: 601661](#)Human

[SwissProt: P63279](#)Human

[SwissProt: P63280](#)Mouse

[SwissProt: P63281](#)Rat

[Unigene: 302903](#)Human

[Unigene: 240044](#)Mouse

[Unigene: 384234](#)Mouse

[Unigene: 442797](#)Mouse

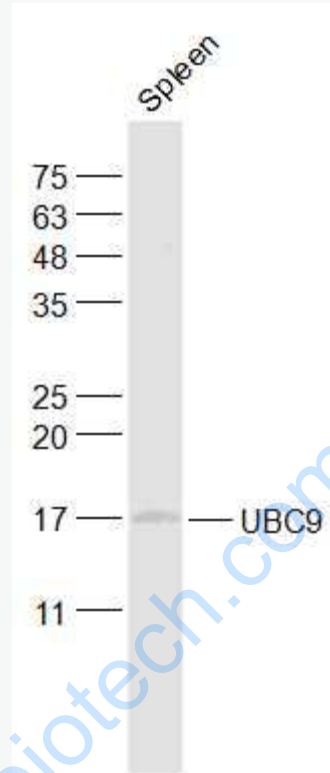
[Unigene: 2274](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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Picture:



Sample:

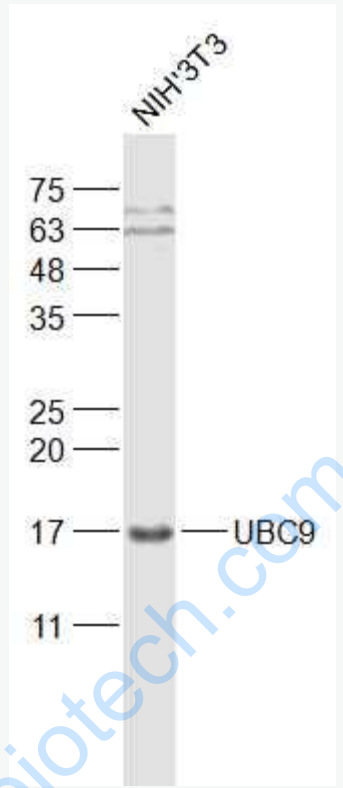
Spleen (Mouse) Lysate at 40 ug

Primary: Anti-UBC9 (SL8347R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 18 kD

Observed band size: 17 kD



Sample:

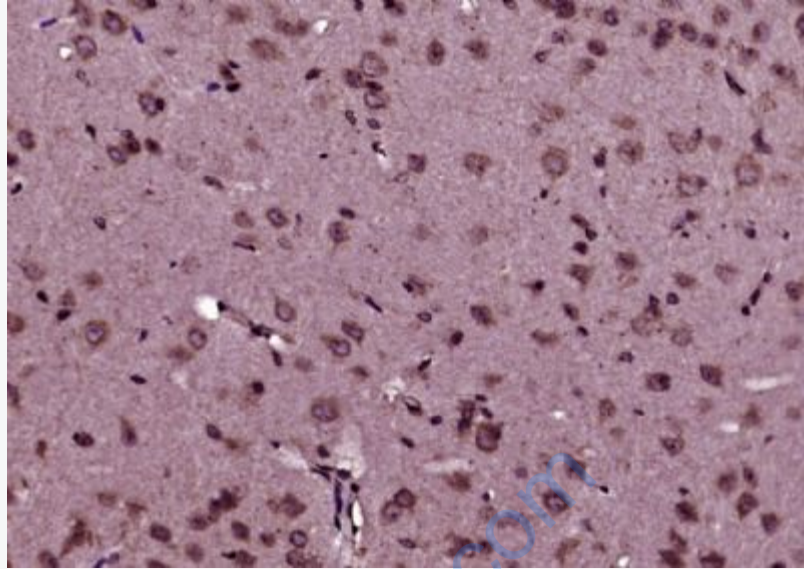
NIH/3T3(Mouse) Cell Lysate at 30 ug

Primary: Anti-UBC9 (SL8347R) at 1/1000 dilution

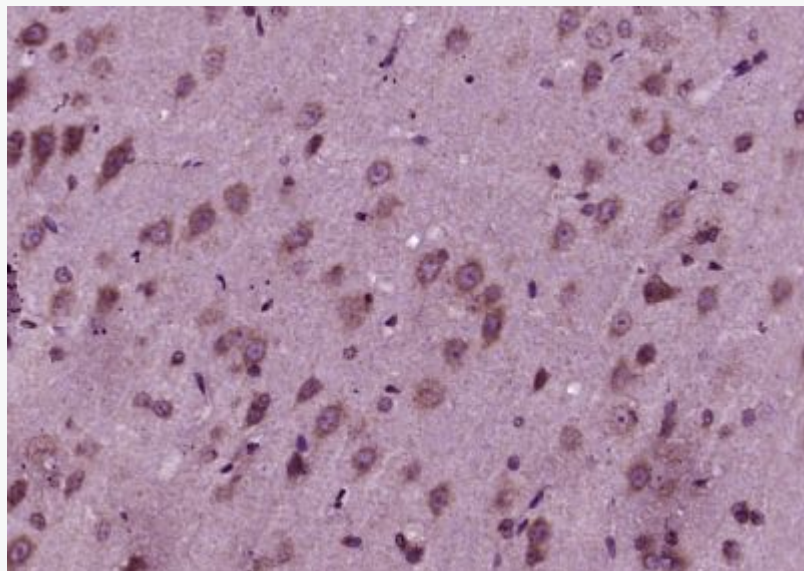
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 18 kD

Observed band size: 17 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (UBE2I/UBC9) Polyclonal Antibody, Unconjugated (SL8347R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (UBE2I/UBC9) Polyclonal Antibody, Unconjugated (SL8347R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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