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UBC9 Recombinant Mouse mAb

Catalog # AP96356

Product Information

Application	WB
Predicted	Human
Host	Mouse
Clonality	Recombinant
Physical State	Liquid
Isotype	IgG2b/Kappa
Purity	affinity purified by Protein G
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the ubiquitin-conjugating enzyme family.
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 DNM1l (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-colied 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.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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].

Additional Information

Other Names	C358B7.1; P18; UBC9; 5830467E05Rik; Ubce2i; Ubce9; UbcE2A; UBC9_HUMAN; UBE2I; RING-type E3 SUMO transferase UBC9; SUMO-protein ligase; Ubiquitin carrier protein 9; Ubiquitin carrier protein I; Ubiquitin-conjugating enzyme E2 I; Ubiquitin-protein ligase I; 2.3.2.-; UBC9_MOUSE; Ubiquitin carrier protein 9 (mUBC9); UBC9_RAT; Ubiquitin-conjugating enzyme UbcE2A; ubiquitin conjugating enzyme E2 I; ubiquitin-conjugating enzyme E2I (homologous to yeast UBC9); ubiquitin-conjugating enzyme E2I (UBC9 homolog, yeast);

	ubiquitin-conjugating enzyme E2I
Dilution	WB=1:500-2000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.
Name	UBC9 Recombinant Mouse mAb
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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.