Store at -200

UBC3B Antibody



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Applications: WB, IHC-P, FC-FP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 32	Source: Rabbit	UniProt ID: #Q712K3	Entrez-Gene Id: 54926	
Product Usage Information	Ар	plication				Dilution	
	We	Western Blotting				1:1000	
	Imr	Immunohistochemistry (Paraffin)				1:50	
	Flo	Flow Cytometry (Fixed/Permeabilized)				1:25	
Storage Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store 20°C. Do not aliquot the antibody.						glycerol. Store at –	
Specificity / Sensitivity		UBC3B Antibody detects endogenous levels of total UBC3B protein.					
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the sequence of human UBC3B. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	protubiq com then (1-3 data ubiq are resid and CDM	Ubiquitin can be covalently linked to many cellular proteins by the ubiquitination process, which targets proteins for degradation by the 26S proteasome. Three components are involved in the target protein-ubiquitin conjugation process. Ubiquitin is first activated by forming a thiolester complex with the activation component E1; the activated ubiquitin is subsequently transferred to the ubiquitin-carrier protein E2, and then from E2 to ubiquitin ligase E3 for final delivery to the epsilon-NH2 of the target protein lysine residue (1-3). Combinatorial interactions of different E2 and E3 proteins result in substrate specificity (4). Recent data suggest that activated E2 associates transiently with E3, and that the dissociation is a critical step for ubiqitination (5). UBC3, the mammalian orthologue of yeast Cdc34, and UBC3B, a UBC3 family member, are E2 ubiquitin-carrier proteins. These proteins contain a conserved core domain containing a cysteine residue, which forms the thioester bond with ubiquitin (6). UBC3 in concert with the SCFSkp2 (Skp1, Cullin and F-box protein/Skp2) complex mediates cell cycle progression from G1 to S phase by targeting the CDK inhibitor p27 for proteolysis (7). UBC3B in concert with the SCFb-Trcp (Skp1, Cullin and F-box protein/b-Trcp) complex mediates degradation of b-catenin (6).					

Background References

- 1. Ciechanover, A. (1998) EMBO J. 17, 7151-7160.
- 2. Hochstrasser, M. (2000) Nat. Cell Biol. 2, E153-E157.
- 3. Hochstrasser, M. (2000) Science 289, 563-564.
- 4. DeSalle, L.M. and Pagano, M. (2001) FEBS Lett. 490, 179-189.
- 5. Deffenbaugh, A. E. et al. (2003) Cell 114, 611-622.
- 6. Semplici, F. et al. (2002) Oncogene 21, 3978-3987.
- 7. Pagano, M. et al. (1995) Science 269, 682-685.

Species Reactivity Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS,

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting IHC-P: Immunohistochemistry (Paraffin) FC-FP: Flow Cytometry (Fixed/Permeabilized)

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster **Cross-Reactivity Key**

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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1/1/24, 7:04 AM **Limited Uses**

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