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## **UBE1a Antibody**



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## For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IP, IHC-P, IF-IC, FC-FP	Reactivity: H M R	Sensitivity: Endogenous	<b>MW (kDa):</b> 117	Source: Rabbit	UniProt ID: #P22314	Entrez-Gene Id: 7317		
Product Usage Information	Ар	plication				Dilution		
	We	stern Blotting				1:1000		
	Imr	nunoprecipitation				1:50		
	Imr	nunohistochemistry	(Paraffin)			1:175		
	Imr	nunofluorescence (	(Immunocytochemis	stry)		1:50		
	Flo	w Cytometry (Fixed		1:100				
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity / Sensit		UBE1a Antibody detects endogenous levels of total UBE1a protein. This antibody does not cross-react with UBE1b.						
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the amino terminus of human UBE1. Antibodies are purified by protein A and peptide affinity chromatography.						
Background	prot ubiq activ prot prot spec	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 ubiquitin-activating enzyme (UBE1 or 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 $\epsilon$ -amino group of the target protein lysine residue (1-3). Combinatorial interactions of different E2 and E3 proteins result in substrate specificity (4). UBE1 has two isofoms: UBE1a is a nuclear protein of 117 kDa while UBE1b is a nuclear and cytoplasmic protein of 110 kDa (5).						
Background Refere	2. H 3. H 4. D	<ol> <li>Ciechanover, A. (1998) EMBO J. 17, 7151-7160.</li> <li>Hochstrasser, M. (2000) Nat. Cell Biol. 2, E153-E157.</li> <li>Hochstrasser, M. (2000) Science 289, 563-564.</li> <li>DeSalle, L.M. and Pagano, M. (2001) FEBS Lett. 490, 179-189.</li> <li>Stephen, A.G. et al. (1996) J. Biol. Chem. 271, 15608-15614.</li> </ol>						

**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 IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin)

**IF-IC**: Immunofluorescence (Immunocytochemistry) **FC-FP**: Flow Cytometry (Fixed/Permeabilized)

**Cross-Reactivity Key** 

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

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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**Limited Uses** 

## UBE1a Antibody (#4890) Datasheet Without Images Cell Signaling Technology

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