g UBE3A (D10D3) Rabbit mAb





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Applications: W, W-S	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 98	Source/Isotype: Rabbit IgG	UniProt ID: #Q05086	Entrez-Gene Id: 7337	
Product Usage Information		Application Western Blotting Simple Western™			Dilution 1:1000 1:10 - 1:50		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.			ol and less than		
Specificity/Sensitivity		UBE3A (D10D3) Rabbit mAb recognizes endogenous levels of total UBE3A protein. Based upon sequence alignment, this antibody is predicted to cross-react with all UBE3A splice variants.					
Species predict based on 100% homology		Bovine, Dog, Horse, Ra	abbit				
Source / Purific	ation	Monoclonal antibody i residues near the carb		unizing animals with a sman UBE3A protein.	synthetic peptide co	rresponding to	
Background		founding member of t UBE3A has been show papillomaviruses (HPV inappropriately directer respect to carcinogene Rad23), was the first de UBE3A have been iden mutations or disruptio a severe form of ment both parental alleles, in paternal allele being e <i>UBE3A</i> allele, generally coding sequence. This neuronal tissue is resp neuronal substrates of regulated cytoskeletor promotes internalizatio synaptic strength. UBE preventing AMPAR inter	he HECT (Homolog n to be hijacked by 16 and HPV18) that ed toward several s esis, is p53 (2). Althous escribed E6-indepentified. This continu in in expression of f al retardation (3-6). It is expressed from pigenetically silence y by large chromosof strongly suggests ionsible for the AS of UBE3A including A n-associated protein on of AMPA-type gl 3A ubiquitinates A ernalization (8). Dis	P (E6 Associated Protein ous to the E6 Carboxyl T the oncogenic E6 prote t causes the ubiquitinati pecific cellular proteins, ough the DNA-repair en ndent substrate of UBE: es to be an active area of UBE3A in the brain are t Although UBE3A is exp the maternal allele in s ed. AS is caused by disru- omal deletion, but also of that lack of ubiquitinatic phenotype (7). Indeed, a arc and Ephexin-5 (8). Th n) is rapidly upregulated utamate receptors (AMI rc and promotes its deg ruption in neuronal UBE excitatory synapses, wh	Terminus) family of f in of high-risk huma ion activity of UBE3/ the most notable o zyme, HHR23A (hun 3A, very few E6-inde of research, particul he cause of Angelm ressed in most hum ubregions of the bra uptions in expressio by point mutations o by point mutations o on of one or more U a recent study identi he immediate early of d after robust neuro PARs), resulting in re radation by the 26S E3A function leads to	E3 ligases (1). A to be f which, with han homolog A of pendent targets of arly because lan syndrome (AS), han tissues from ain, with the n of the materal within the <i>UBE3A</i> IBE3A substrates in fied several new gene Arc (activity- nal stimulation and eduction in proteasome, thus o an increase in Arc	
Background Re	ferences	1. Huibregtse, J.M. et a 2. Huibregtse, J.M. et a 3. Fang, P. et al. (1999) 4. Jiang, Y. et al. (1999) 5. Jiang, Y.H. et al. (1996) 6. Kumar, S. et al. (1996) 7. Mabb, A.M. et al. (201 8. Greer, P.L. et al. (201	I. (1993) <i>Mol Cell B</i> <i>Hum Mol Genet</i> 8, <i>Am J Hum Genet</i> 6 8) <i>Neuron</i> 21, 799- 9) <i>J Biol Chem</i> 274, 911) <i>Trends Neuros</i>	129-35. 5, 1-6. 811. 18785-92. <i>ci</i> 34, 293-303.			
Species Reactiv	vity	Species reactivity is de	termined by testing	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot B	uffer	IMPORTANT: For weste TBS, 0.1% Tween® 20 a		membrane with diluted haking, overnight.	primary antibody ir	ו 5% w/v BSA, 1X	

Applications Key	W: Western Blotting W-S: Simple Western™		
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey		
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