e at -20C	UBE3A (D10D3) Rabbit mAb		Cell Signaling
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com
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7526		Web:	info@cellsignal.com cellsignal.com
#		3 Trask Lane Danvers	Massachusetts 01923 USA

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

Applications: WB	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 98	Source/Isotype: Rabbit IgG	UniProt ID: #Q05086	Entrez-Gene Id: 7337
Product Usage Information		blication Stern Blotting			Dilution 1:1000	
Storage				7.5), 150 mM NaCl, 100 not aliquot the antibody		erol and less than
Specificity / Sensit	ivity UBE: align			endogenous levels of to ross-react with all UBE3		ased upon sequence
Species predicted react based on 100 sequence homolog	9%	ne, Dog, Horse, Ral	bbit			
Source / Purificatio				nunizing animals with a s Iman UBE3A protein.	synthetic peptide corre	esponding to
Background	found has b and H speci DNA subsi an ac brain UBE allele disru by po one o study early neuro in reo prote incre	ting member of the been shown to be h HPV18) that causes ific cellular proteins -repair enzyme, HH trate of UBE3A, ver trate of UBE3A, ver are the cause of A 3A is expressed in r e in subregions of th ptions in expression bint mutations within or more UBE3A sub y identified several r gene Arc (activity-r onal stimulation and duction in synaptic s	HECT (Homolog ijacked by the or is the ubiquitinatio , the most notabl R23A (human ho y few E6-indepe ch, particularly bo ngelman syndror most human tissue brain, with the n of the materal (h the UBE3A coor strates in neuror new neuronal sul regulated cytoske promotes interr strength. UBE3A nting AMPAR inte on and a decreas	5AP (E6 Associated Pro gous to the E6 Carboxyl acogenic E6 protein of h on activity of UBE3A to b e of which, with respect omolog A of Rad23), wa ndent targets of UBE3A ecause mutations or dis me (AS), a severe form uses from both parental a paternal allele being ep <i>JBE3A</i> allele, generally ling sequence. This stro nal tissue is responsible bostrates of UBE3A inclu eleton-associated protei nalization of AMPA-type ubiquitinates Arc and p ernalization (8). Disrupti se in AMPARs at excitat	Terminus) family of E: igh-risk human papillo be inappropriately dire- to carcinogenesis, is s the first described E have been identified. ruption in expression of of mental retardation (alleles, it is expressed bigenetically silenced. <i>J</i> by large chromosoma ngly suggests that lac for the AS phenotype ding Arc and Ephexin- n) is rapidly upregulate glutamate receptors (<i>J</i> romotes its degradatio on in neuronal UBE3A	3 ligases (1). UBE3A maviruses (HPV16 cted toward several p53 (2). Although the 6-independent This continues to be of UBE3A in the (3-6). Although from the maternal AS is caused by al deletion, but also k of ubiquitination of (7). Indeed, a recent -5 (8). The immediate ed after robust AMPARs), resulting on by the 26S a function leads to an
Background Refere	2. Hu 3. Fa 4. Jia 5. Jia 6. Ku 7. Ma	ibregtse, J.M. et al. ibregtse, J.M. et al. ing, P. et al. (1999) ing, Y. et al. (1999) ing, Y.H. et al. (1999) imar, S. et al. (1999) abb, A.M. et al. (2010) eer, P.L. et al. (2010)	(1993) Mol Cell Hum Mol Genet Am J Hum Gene B) Neuron 21, 79) J Biol Chem 27 .1) Trends Neuro	8, 129-35. ht 65, 1-6. 19-811. 74, 18785-92. hsci 34, 293-303.	.49.	

Species Reactivity

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

4/12/24, 10:37 AM Western Blot Buffer	UBE3A (D10D3) Rabbit mAb (#7526) Datasheet Without Images Cell Signaling Technology 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				
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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