e at -20C	OTX2 (D7Y3J) Rabbit mAb		Cell Signaling	
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Applications: WB	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 31, 33	Source/Isotype: Rabbit IgG	UniProt ID: #P32243	Entrez-Gene Id: 5015	
Product Usage Information		Application Western Blotting			Dilution 1:1000		
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.					
Specificity / Sensitivity		OTX2 (D7Y3J) Rabbit mAb recognizes endogenous levels of total OTX2 protein. This antibody recognizes both known human isoforms.					
Species predicted to react based on 100% sequence homology:		Mouse, Rat, Monkey, Chicken, Bovine, Horse, Guinea Pig					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asn251 of human OTX2 protein.					
Background	tr tt 3 c s N e b v v	Drthodenticle homeobox ranscription factors. OT. he expression of cell cy 3). In addition to its neur cell autonomous mannel shown to influence the s Notably, aberrant express example, research studie both overexpression and <i>vitro</i> studies support the proliferation and senesce	X2 is a critically cle genes contro onal development r to promote surv usceptibility of p ssion of OTX2 has es have found O d gene amplificat se observations,	important neuronal trans illing proliferation and di nt functions, it has been vival of damaged retinal ost-mitotic neurons to to as been strongly linked v TX2 is overexpressed in ion were reported in a s as targeted alterations	scription factor that fur fferentiation of neural reported that OTX2 ca ganglion cells (4). OT oxic insult or physiolog with neuronal tumor de n many medulloblastor ubset of primary medu in OTX2 expression di	actions to regulate progenitor cells (1- an function in a non- X2 has also been ical stress (3). evelopment. For ma cell lines, and ulloblastomas (5). In	
Background Refe	2 3 4 5 6	Simeone, A. et al. (199 2. Omodei, D. et al. (200 8. Chung, C.Y. et al. (200 4. Torero Ibad, R. et al. (5. Adamson, D.C. et al. (6. Bunt, J. et al. (2011) In 7. Bunt, J. et al. (2010) M	8) Development 10) Brain 133, 20 2011) J Neurosc (2010) Cancer R nt J Cancer 131,	135, 3459-70. 022-31. 5/ 31, 5495-503. res 70, 181-91. E21-32.			
Species Reactivity	y Sf	pecies reactivity is deter	rmined by testing	g in at least one approve	ed application (e.g., we	estern 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	v	VB: 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 					
Trademarks and Patents	Ce	ell Signaling Technology	y is a trademark	of Cell Signaling Techno	blogy, Inc.		

OTX2 (D7Y3J) Rabbit mAb (#11943) Datasheet Without Images Cell Signaling Technology

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