evision 7

Human Tran Factor β2 (h 907 907 907 907 907 907 907 907 907 907	-	Growth	3 Track I and	Orders: Support: Web:	T E C o	Signaling H N O L O G Y* 877-616-CELL (2355) rders@cellsignal.com 877-678-TECH (8324) info@cellsignal.com cellsignal.com
3 Trask Lane Danvers Massachusetts 01923 USA For Research Use Only. Not for Use in Diagnostic Procedures.						
MW (kDa): 12	UniProt ID: #P61812	Entrez-Gene Id: 7042				
Background	TGF-β2 ir mesenchy binding is phosphor	s produced by eosinophils, astro hibits antigen-induced T-cell pro ymal cell proliferation and has ce promoted by TβRIII. TβRI then ylation of the SMAD proteins (2, of TGF-β2 in mice severely imp	Diferation, inhibits epithelia ell specific effects on apopt complexes with TβRII and 3,9). TGF-β2 also activate	al cell prolif tosis (1-8). TβRIII (3,5 s Erk2, p3	eration, in TGF-β2 k 5). Signaliı 8, and JNI	duces binds to TβRII and ng involves
Endotoxin	Less than	0.01 ng endotoxin/1 μg hTGF-β	32.			
Purity	>98% as determined by SDS-PAGE of 6 μ g reduced (+) and non-reduced (-) recombinant hTGF- β 2. All lots are greater than 98% pure.					
Source / Purification	Recombinant human TGF-β2 (hTGF-β2) Ala303-Ser414 (Accession #NP_003229) was expressed in human 293 cells at Cell Signaling Technology.					
Bioactivity	The bioactivity of recombinant hTGF- β 2 was was determined by assessing inhibition of IL-4 induced HT-2 cell proliferation. The ED ₅₀ of each lot is between 0.1-0.3 ng/ml.					
Background	TGF- β 2 is produced by eosinophils, astrocytes, glioblastoma and other cancer derived cell types (1-6). TGF- β 2 inhibits antigen-induced T-cell proliferation, inhibits epithelial cell proliferation, induces mesenchymal cell proliferation and has cell specific effects on apoptosis (1-8). TGF- β 2 binds to T β RII and binding is promoted by T β RIII. T β RI then complexes with T β RII and T β RIII (3,5). Signaling involves phosphorylation of the SMAD proteins (2,3,9). TGF- β 2 also activates Erk2, p38, and JNK pathways (9). Knockout of TGF- β 2 in mice severely impacts heart, lung and eye development (10).					
Background References	 Balzar, S. et al. (2005) J Allergy Clin Immunol 115, 110-7. Siegel, P.M. and Massagué, J. (2003) Nat Rev Cancer 3, 807-21. Bierie, B. and Moses, H.L. (2006) Nat Rev Cancer 6, 506-20. Hinz, S. et al. (2007) Cancer Res 67, 8344-50. Damstrup, L. et al. (1993) Br J Cancer 67, 1015-21. Constam, D.B. et al. (1992) J Immunol 148, 1404-10. Zhang, H. et al. (2008) Immunology 124, 304-14. Dufour, C. et al. (2008) Am J Physiol Endocrinol Metab 294, E794-801. Moustakas, A. and Heldin, C.H. (2009) Development 136, 3699-714. Dünker, N. and Krieglstein, K. (2000) Eur J Biochem 267, 6982-8. 					
Cross-Reactivity Key	X: Xenopu	M: mouse R: rat Hm: hamster N s Z: zebrafish B: bovine Dg: do a Pig Rab: rabbit All: all specie:	g Pg: pig Sc: S. cerevisiae			-
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Human Transforming Growth Factor β2 (hTGF-β2) (#8406) Datasheet Without Images Cell Signaling Techn...

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