



**Orders:** 877-616-CELL (2355)  
orders@cellsignal.com

**Support:** 877-678-TECH (8324)

**Web:** info@cellsignal.com  
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

#72209 Store at +4C

## Brachyury (D2Z3J) Rabbit mAb (PE Conjugate)

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

Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
FC-FP	H	Endogenous	Rabbit IgG	#O15178	6862
<b>Product Usage Information</b>	<b>Application</b> Flow Cytometry (Fixed/Permeabilized)			<b>Dilution</b> 1:50	
<b>Storage</b>	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.				
<b>Specificity/Sensitivity</b>	Brachyury (D2Z3J) Rabbit mAb (PE Conjugate) recognizes endogenous levels of total Brachyury protein.				
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro256 of human Brachyury protein.				
<b>Description</b>	This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometric analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated Brachyury (D2Z3J) Rabbit mAb #81694.				
<b>Background</b>	Brachyury protein, encoded by the <i>T</i> gene, is a transcription factor that is vital for the formation of posterior mesoderm and axial development during vertebrate embryogenesis (1). In the mouse, brachyury is necessary for mesodermal morphogenetic cell movements during gastrulation. Brachyury mutant mice die <i>in utero</i> and display deficient mesoderm formation including an abnormal notochord, missing posterior somites, and a reduced allantois (2). Human brachyury is expressed in the notochord, as well as in chordoma tumors that occur along the spine, making it a good marker for notochord and notochord-derived tumors (3,4). A common polymorphism in the human <i>T</i> gene has also been shown to be associated with development of the multifactorial neural tube defect, spina bifida (5,6).				
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Edwards, Y.H. et al. (1996) <i>Genome Res</i> 6, 226-33.</li> <li>2. Wilson, V. et al. (1995) <i>Development</i> 121, 877-86.</li> <li>3. Vujovic, S. et al. (2006) <i>J Pathol</i> 209, 157-65.</li> <li>4. Yang, X.R. et al. (2009) <i>Nat Genet</i> 41, 1176-8.</li> <li>5. Morrison, K. et al. (1996) <i>Hum Mol Genet</i> 5, 669-74.</li> <li>6. Jensen, L.E. et al. (2004) <i>Hum Genet</i> 115, 475-82.</li> </ol>				

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

**Applications Key** **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

**Cross-Reactivity Key** **H:** Human

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