

Brachyury Antibody



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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H	Transfected Only	56	Rabbit	#O15178	6862

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 and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

Brachyury Antibody recognizes transfected levels of total Brachyury protein.

Species predicted to react based on 100% sequence homology

Monkey

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly234 of human Brachyury protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Brachyury protein, encoded by the *T* 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 *in utero* 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 *T* gene has also been shown to be associated with development of the multifactorial neural tube defect, spina bifida (5,6).

Background References

1. Edwards, Y.H. et al. (1996) *Genome Res* 6, 226-33.
2. Wilson, V. et al. (1995) *Development* 121, 877-86.
3. Vujovic, S. et al. (2006) *J Pathol* 209, 157-65.
4. Yang, X.R. et al. (2009) *Nat Genet* 41, 1176-8.
5. Morrison, K. et al. (1996) *Hum Mol Genet* 5, 669-74.
6. Jensen, L.E. et al. (2004) *Hum Genet* 115, 475-82.

Species Reactivity

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

W: Western Blotting

Cross-Reactivity Key

H: Human

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