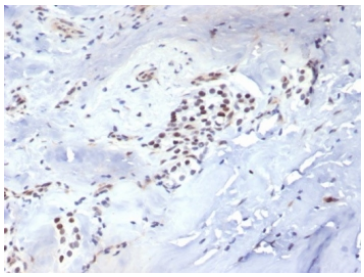
Brachyury Antibody / TBXT / Protein T [clone TBXT/7711R] (V5194)

Catalog No.	Formulation	Size
V5194-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5194-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5194SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

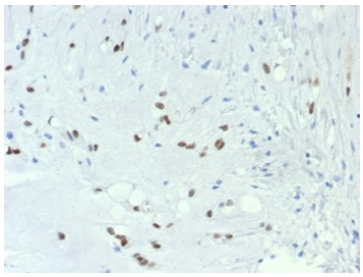
Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	TBXT/7711R
Purity	Protein A/G affinity
UniProt	O15178
Localization	Nucleus
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This Brachyury antibody is available for research use only.



IHC staining of FFPE human parathyroid tissue with Brachyury antibody (clone TBXT/7711R). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human chordoma tissue with Brachyury antibody (clone TBXT/7711R). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

Description

The T-box gene family consists of members that share a unique DNA binding domain. The best characterized T-box (Tbx) gene, brachyury or T, encodes a transcription factor that plays an important role in early vertebrate development. Tbx genes are a family of developmental regulators with more than 20 members recently identified among invertebrates and vertebrates. Mutations in Tbx genes have been found to cause several human diseases. The understanding of functional mechanisms of Tbx products has come mainly from the prototypical T/brachyury protein, which is a transcription activator. The T-domain is a highly conserved DNA-binding motif originally defined in brachyury and characteristic of the Tbx family of transcription factors. The murine brachyury (T) gene is required in posterior mesoderm formation and axial development. Mutant embryos lacking T gene function are deficient in notochord differentiation and posterior mesoderm formation, but develop anterior mesoderm.

Application Notes

Optimal dilution of the Brachyury antibody should be determined by the researcher.

Immunogen

A recombinant partial protein sequence (within amino acids 235-435) from the human protein was used as the immunogen for the Brachyury antibody.

Storage

Aliquot the Brachyury antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.