


Product datasheet

Anti-Brachyury / Bry antibody ab20680

★★★★☆ [5 Abreviews](#) [52 References](#) [1 Image](#)

Overview

Product name	Anti-Brachyury / Bry antibody
Description	Rabbit polyclonal to Brachyury / Bry
Host species	Rabbit
Specificity	The immunogen used to raise this antibody has 81% homology with the Mouse Brachyury protein. Some customers have successfully used ab20680 on mouse samples, however we have not been successful detecting Brachyury in this species in our own testing and therefore cannot guarantee mouse reactivity. Please contact Abcam Scientific Support for more information.
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Human Predicted to work with: Dog  Does not react with: Zebrafish
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

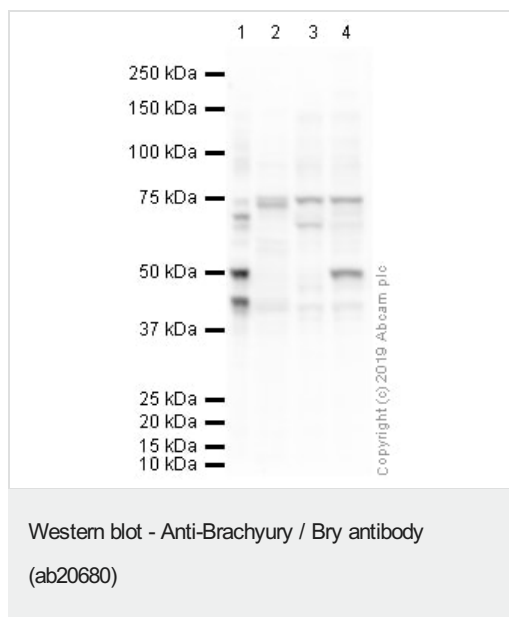
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab20680 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (2)	Use a concentration of 1 µg/ml. Detects a band of approximately 47 kDa (predicted molecular weight: 47 kDa).

Target

Function	Involved in the transcriptional regulation of genes required for mesoderm formation and differentiation. Binds to a palindromic site (called T site) and activates gene transcription when bound to such a site.
Involvement in disease	Genetic variations in T are associated with susceptibility to neural tube defects (NTD) [MIM:182940]. NTD are common congenital malformations. Spina bifida, which results from malformations in the caudal region of the neural tube, is compatible with life but associated with significant morbidity, including lower limb paralysis. T is involved in susceptibility to the development of chordoma (CHDM) [MIM:215400]. Chordomas are rare, clinically malignant tumors derived from notochordal remnants. They occur along the length of the spinal axis, predominantly in the sphenoccipital, vertebral and sacrococcygeal regions. They are characterized by slow growth, local destruction of bone, extension into adjacent soft tissues and rarely, distant metastatic spread. Note=Susceptibility to development of chordomas is due to a T gene duplication.
Sequence similarities	Contains 1 T-box DNA-binding domain.
Cellular localization	Nucleus.

Images



All lanes : Anti-Brachyury / Bry antibody (ab20680) at 1 µg/ml

Lane 1 : MUG-Chor1 (human sacral bone chordoma) at 10 µg

Lane 2 : MCF7 whole cell lysate (negative control) at 15 µg

Lane 3 : Human embryonic stem cells (pluripotent) (negative control) at 10 µg

Lane 4 : Human embryonic stem cells (mesoderm) at 10 µg

Secondary

All lanes : Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/50000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 47 kDa

Observed band size: 50 kDa

Exposure time: 4 minutes

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 2% Bovine Serum Albumin before being incubated with ab20680 overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP, and visualised using ECL development solution **ab133406**.

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