


Product datasheet

Anti-DYX1C1 antibody ab31287

1 References 2 Images

Overview

<b>Product name</b>	Anti-DYX1C1 antibody
<b>Description</b>	Goat polyclonal to DYX1C1
<b>Host species</b>	Goat
<b>Specificity</b>	This antibody is expected to recognise only one of the three reported isoforms of DYX1C1, isoform a.
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P
<b>Species reactivity</b>	<b>Predicted to work with:</b> Mouse, Rat, Human, Chimpanzee 
<b>Immunogen</b>	Synthetic peptide: C-KIRNVIQGTELKS , corresponding to amino acids 408-420 of DYX1C1  <a href="#">Run BLAST with</a> <a href="#">Run BLAST with</a>
<b>Positive control</b>	Human brain lysate. Lysates of COS1 cells transfected with full length recombinant Human DYX1C1.

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 0.05% Tris buffered saline, 0.5% BSA
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab31287** in the following tested applications.

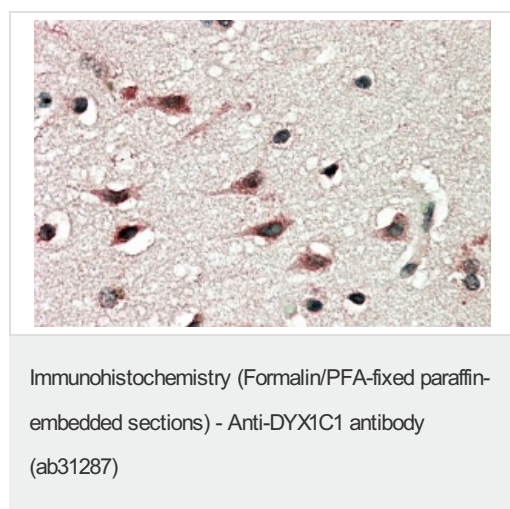
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.1 µg/ml. Detects a band of approximately 48, 75 kDa. In addition, a minor band of 24kDa is detected consistent with observations with N-terminal specific antibodies. The 75kDa band is visible in the non-transfected COS1 also (first lane) and is therefore non-specific. We call for caution when this product is used in other assays than Western blot.
IHC-P		Use a concentration of 5 - 10 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

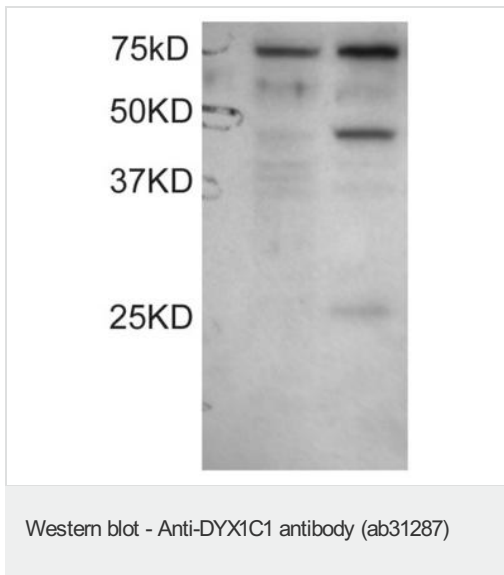
## Target

<b>Function</b>	Involved in neuronal migration during development of the cerebral neocortex. May regulate the stability and proteasomal degradation of the estrogen receptors that play an important role in neuronal differentiation, survival and plasticity.
<b>Tissue specificity</b>	Expressed in several tissues, including brain, lung, kidney and testis. In brain localizes to a fraction of cortical neurons and white matter glial cells.
<b>Involvement in disease</b>	Defects in DYX1C1 may be a cause of susceptibility to dyslexia type 1 (DYX1) [MIM:127700]. A relatively common, complex cognitive disorder characterized by an impairment of reading performance despite adequate motivational, educational and intellectual opportunities. It is a multifactorial trait, with evidence for familial clustering and heritability. Note=A chromosomal aberration involving DYX1C1 has been found in a family affected by dyslexia. Translocation t(2;15)(q11;q21).
<b>Sequence similarities</b>	Contains 1 CS domain. Contains 3 TPR repeats.
<b>Cellular localization</b>	Nucleus. Cytoplasm.

## Images



ab31287 (5µg/ml) staining DYX1C1 in paraffin embedded Human Cerebral Cortex following steamed antigen retrieval with citrate buffer pH 6 and AP-staining shows cytoplasmic staining in some neuronal cells.



**All lanes :** Anti-DYX1C1 antibody (ab31287) at 0.1 µg/ml

**Lane 1 :** COS1 cell lysates untransfected

**Lane 2 :** COS1 cell lysates transfected with full length recombinant Human DYX1C1

**Observed band size:** 48,75 kDa

[why is the actual band size different from the predicted?](#)

**Additional bands at:** 24 kDa (possible non-specific binding)

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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