


## Product datasheet

# Anti-DYRK1A antibody ab156818

[1 References](#) [1 Image](#)

### Overview

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<b>Product name</b>	Anti-DYRK1A antibody
<b>Description</b>	Goat polyclonal to DYRK1A
<b>Host species</b>	Goat
<b>Specificity</b>	ab156818 is expected to recognize all reported isoforms (NP_001387.2; NP_569120.1; NP_567824.1; NP_569122.1).  ab156818 is not expected to cross-react with DYRK1B.
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat, Cow, Dog, Pig 
<b>Immunogen</b>	Synthetic peptide corresponding to Human DYRK1A aa 35-47 (N terminal) (Cysteine residue). Sequence: PHSHQYSDRRQPN  <a href="#">Run BLAST with</a> <a href="#">Run BLAST with</a>
<b>Positive control</b>	K562 cell line lysate
<b>General notes</b>	<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&amp;As</p>

### Properties

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<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: 0.5% BSA, 99% Tris buffered saline
<b>Purity</b>	Immunogen affinity purified

<b>Purification notes</b>	ab156818 was 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

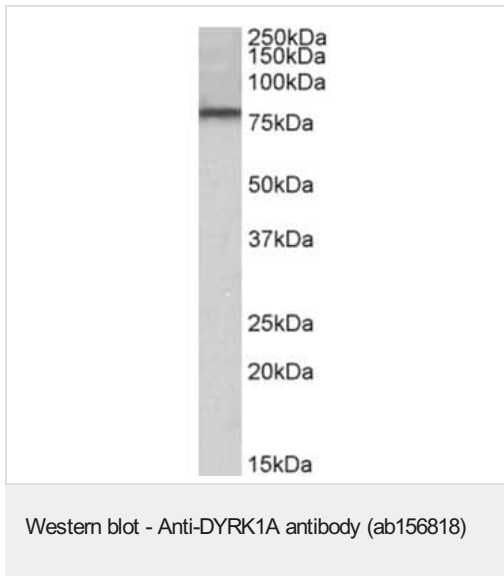
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab156818 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
<b>WB</b>		Use a concentration of 0.5 - 2 µg/ml. Detects a band of approximately 80 kDa (predicted molecular weight: 86 kDa). 1 hour primary incubation is recommended for this product.

## Target

<b>Function</b>	May play a role in a signaling pathway regulating nuclear functions of cell proliferation. Phosphorylates serine, threonine and tyrosine residues in its sequence and in exogenous substrates.
<b>Tissue specificity</b>	Ubiquitous. Highest levels in skeletal muscle, testis, fetal lung and fetal kidney.
<b>Involvement in disease</b>	Defects in DYRK1A are the cause of mental retardation autosomal dominant type 7 (MRD7) [MIM:614104]. A disease characterized by primary microcephaly, severe mental retardation without speech, anxious autistic behavior, and dysmorphic features, including bitemporal narrowing, deep-set eyes, large simple ears, and a pointed nasal tip. Mental retardation is characterized by significantly below average general intellectual functioning associated with impairments in adaptative behavior and manifested during the developmental period.
<b>Sequence similarities</b>	Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. MNB/DYRK subfamily. Contains 1 protein kinase domain.
<b>Developmental stage</b>	Expressed in the developing central nervous system. Overexpressed 1.5-fold in fetal Down syndrome brain.
<b>Domain</b>	The polyhistidine repeats act as targeting signals to nuclear speckles (PubMed:19266028).
<b>Post-translational modifications</b>	Autophosphorylated on tyrosine residues.
<b>Cellular localization</b>	Nucleus speckle.

## Images



Anti-DYRK1A antibody (ab156818) at 0.5 µg/ml + K562 cell line lysate at 35 µg

Developed using the ECL technique.

**Predicted band size:** 86 kDa

**Observed band size:** 80 kDa

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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