

Product datasheet

Anti-DYRK1A antibody - C-terminal ab180910

★★★★★ 1 Abreviews 5 Images

Overview

Product name	Anti-DYRK1A antibody - C-terminal
Description	Rabbit polyclonal to DYRK1A - C-terminal
Host species	Rabbit
Specificity	ab180910 will not cross-react with other DYRK family members.
Tested applications	Suitable for: ICC, WB
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide corresponding to Human DYRK1A (C terminal). (17 amino acid peptide; NP_001387). Database link: Q13627
Positive control	HeLa cell lysate; HeLa cells.

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 long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.02% Sodium azide Constituent: 99% PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab180910** in the following tested applications.

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

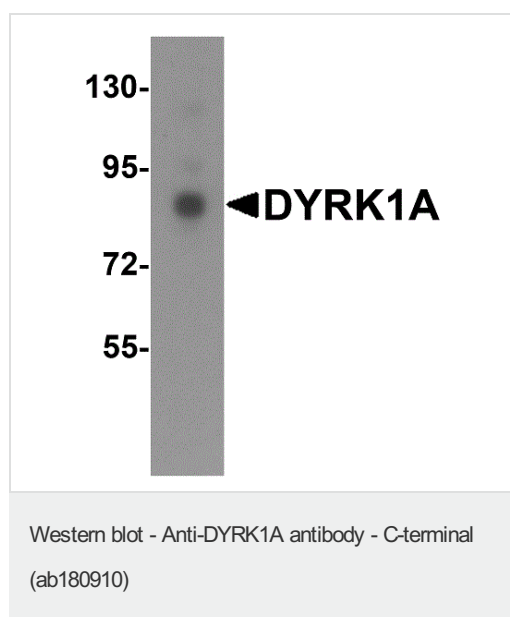
Application	Abreviews	Notes
ICC		Use a concentration of 10 µg/ml.

Application	Abreviews	Notes
WB	★★★★☆	Use a concentration of 1 - 2 µg/ml. Predicted molecular weight: 86 kDa.

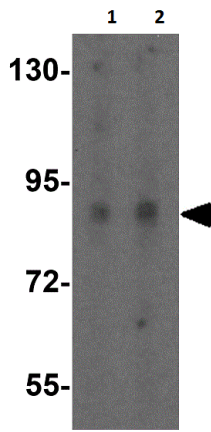
Target

Function	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.
Tissue specificity	Ubiquitous. Highest levels in skeletal muscle, testis, fetal lung and fetal kidney.
Involvement in disease	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.
Sequence similarities	Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. MNB/DYRK subfamily. Contains 1 protein kinase domain.
Developmental stage	Expressed in the developing central nervous system. Overexpressed 1.5-fold in fetal Down syndrome brain.
Domain	The polyhistidine repeats act as targeting signals to nuclear speckles (PubMed:19266028).
Post-translational modifications	Autophosphorylated on tyrosine residues.
Cellular localization	Nucleus speckle.

Images

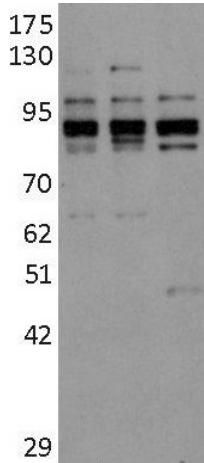


Western blot analysis of DYRK1A expression in K562 cell lysate with ab180910 at (A) 1 and (B) 2µg/ml.



Western blot - Anti-DYRK1A antibody - C-terminal (ab180910)

Western Blot of HeLa cell lysate labeling DYRK1A with Anti-DYRK1A antibody - C-terminal (ab180910) at (1) 1 and (2) 2µg/ml.



Western blot - Anti-DYRK1A antibody - C-terminal (ab180910)

All lanes : Anti-DYRK1A antibody - C-terminal (ab180910) at 1 µg/ml

Lane 1 : K562 cell lysate

Lane 2 : Daudi cell lysate

Lane 3 : EL4 cell lysate (mouse cell line)

Predicted band size: 86 kDa

Observed band size: 90 kDa

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

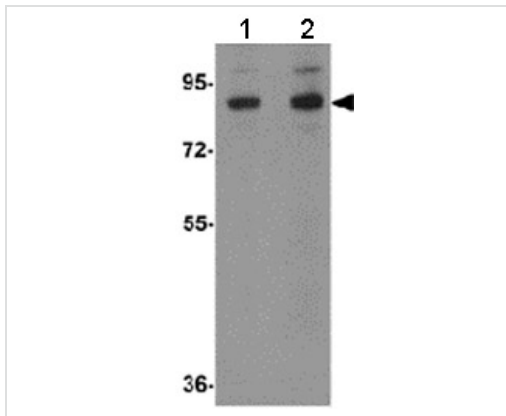
15ug protein per lane

Blocking buffer: 5% non-fat dry milk in TBST



Immunocytochemistry - Anti-DYRK1A antibody - C-terminal (ab180910)

Immunocytochemical analysis of HeLa cells labeling DYRK1A with ab180910 at 10 µg/ml.



Western blot - Anti-DYRK1A antibody - C-terminal (ab180910)

Lane 1 : Anti-DYRK1A antibody - C-terminal (ab180910) at 1 µg/ml

Lane 2 : Anti-DYRK1A antibody - C-terminal (ab180910) at 2 µg/ml

All lanes : HeLa cell lysate

Lysates/proteins at 15 µg per lane.

Predicted band size: 86 kDa

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