

DESCRIPTION

Species Reactivity	Human/Rat
Specificity	Detects human and rat DYRK1A in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human DYRK1A Arg438-Thr511 Accession # Q13627
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.
Immunoprecipitation	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

DYRK1A (Dual-specificity tyrosine [Y] phosphorylation regulated kinase 1A; also hMNB) is a member of the MNB/DYRK subfamily, CMGC Ser/Thr protein kinase family of enzymes. DYRK1A is ubiquitously expressed and shows dual substrate specificity. Autophosphorylation on Tyr321 leads to self-activation, while target proteins are Ser/Thr phosphorylated. Targets include APP, Tau, STAT3, and Cyclin L2. Human DYRK1A is 763 amino acids (aa) in length. It contains two NLSs (aa 69-105 and 109-150), a kinase catalytic domain (aa 159-479), and C-terminal poly-Ser and poly-His regions. DYRK1A activity has been implicated in neuronal development and Down syndrome.

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