

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects endogenous human, mouse and rat DYRK2 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human DYRK2 Met74-Glu180 Accession # Q92630
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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.

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

DYRK2 (Dual-specificity tyrosine [Y] phosphorylation regulated kinase 2) is a member of the MNB/DYRK subfamily, CMGC Ser/Thr protein kinase family of enzymes. DYRK2 is expressed in multiple tissues and shows dual substrate specificity. Autophosphorylation on Tyr382 leads to self-activation, while target proteins are Ser/Thr phosphorylated. Targets include NFATc, glycogen synthase, and p53. p53 phosphorylation on Ser46 by DYRK2 leads to cell apoptosis in response to DNA damage. Human DYRK2 is 601 amino acids (aa) in length, and contains one kinase catalytic domain (aa 222-535).

PRODUCT SPECIFIC NOTICES

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