

DESCRIPTION

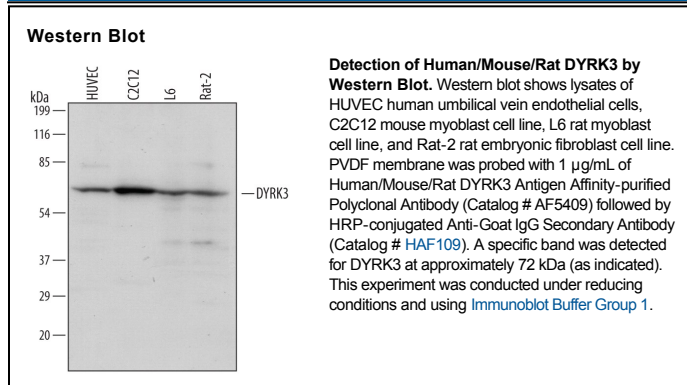
Species Reactivity	Human/Mouse/Rat
Specificity	Detects endogenous human, mouse and rat DYRK3 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human DYRK3 Asn52-Glu167 Accession # O43781
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

DYRK3 (Dual-specificity tyrosine [Y] phosphorylation regulated kinase 3; also REDK) is a member of the MNB/DYRK subfamily, CMGC Ser/Thr protein kinase family of enzymes. DYRK3 is expressed in testis, erythroid-lineage precursors and other tissues, and shows dual substrate specificity. Autophosphorylation on Tyr369 leads to self-activation, while target proteins are Ser/Thr phosphorylated. Targets include CREB and histone 2B. Human DYRK3 is 588 amino acids (aa) in length, and contains one kinase catalytic domain (aa 209-522). There are two potential isoform variants that show either a six aa substitution for aa 1-26, or this same substitution in combination with a premature truncation after Gln263.