

DESCRIPTION

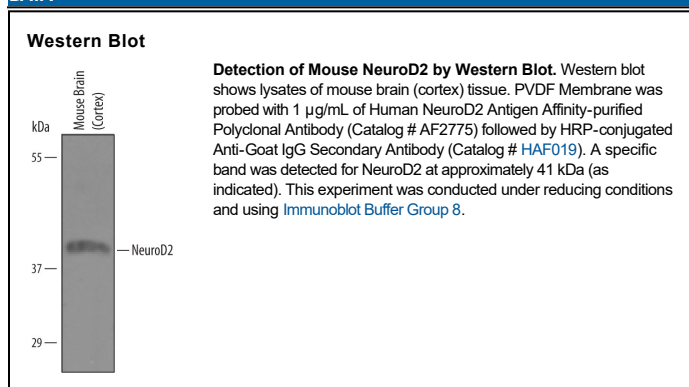
Species Reactivity	Human/Mouse
Specificity	Detects human NeuroD2 in direct ELISAs and Western blots. In direct ELISAs, approximately 20% cross-reactivity with recombinant human NeuroD1 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human NeuroD2 Ser174-Asn382 Accession # Q15784
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 either lyophilized or 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

NeuroD2 (Neurogenic differentiation factor 2; also NDRF and KW8) is a 41 kDa nuclear member of the neuroD family of transcription factors. It is expressed in developing and mature neurons such as hippocampal granular neurons, and acts (in part) to repress factors that would otherwise block multipotential cell commitment to a neuronal lineage. NeuroD2 is presumed to act as a heterodimer with other bHLH transcription factors. Human NeuroD2 is 382 amino acids (aa) in length. It contains a poly-Glu region (aa 82-91), an NLS (aa 107-113), a DNA-binding HLH domain (aa 119-178) and a poly-Gly segment (aa 282-285). Based on rat studies, human NeuroD2 will undergo variable phosphorylation in the C-terminal region. Over aa 174-382, human and mouse NeuroD2 possess identical amino acid sequences.