Human/Mouse NeuroD2 Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF2775

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	*E. coli*-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 as a 0.2 µm filtered solution in PBS.

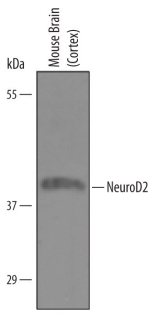
APPLICATIONS

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

Western Blot



Detection of Mouse NeuroD2 by Western Blot. Western blot shows lysates of mouse brain (cortex) tissue. PVDF Membrane was probed with 1 µg/mL of Human NeuroD2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2775) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for NeuroD2 at approximately 41 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

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.** ● 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.

bio-techne
bio-techne.com
Global info@bio-techne.com techsupport@bio-techne.com
North America TEL 800 343 7475 Europe | Middle East | Africa TEL +44 (0)1235 529449
China info.cn@bio-techne.com TEL +86 (21) 52380373
Rest of World bio-techne.com/find-us/distributors TEL +1 612 379 2956