Human/Mouse NeuroD2 Alexa Fluor® 594-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF2775T
100 µg

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
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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

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.

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Bio-Techne®
Global | bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL: 1.612.379.2956
USA | TEL: 800.343.7475 Canada | TEL: 855.668.8722 Europe | Middle East | Africa TEL: +44.0.1235.529449
China | info.cn@bio-techne.com TEL: 400.821.3475