

Human/Mouse Kilon/NEGR1 Alexa Fluor® 405-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF5394V 100 µg

DESCRIPTION	
Species Reactivity	Human/Mouse
Specificity	Detects Kilon/NEGR1 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human (rh) LAMP and rhNCAM-L1 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Kilon/NEGR1 Val38-Gly324 Accession # Q7Z3B1
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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 Shee

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.

(SDS) for additional information and handling instructions.

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

Kindred of IgLON (Kilon; also neuronal growth regulator 1 (NEGR1) and neurotractin) is a 46 kDa member of the IgLON family of molecules. This cell adhesion family includes the proteins LAMP, OBCAM, neurotrimin, CEPU-1, AvGP50, and GP55 (1). Human Kilon is synthesized as a 354 amino acid (aa) precursor that contains a 37 aa signal sequence, a 287 aa mature chain, and a 30 aa propeptide. The mature chain consists of three C2 Ig-like domains, six potential sites for N-linked glycosylation, and a GPI anchor. In addition, there are three sets of cysteines that have the potential to form intradomain disulfide linkages in each of the mature chain's Ig-like domains (1). Human Kilon shares 97% aa sequence identity with mouse and rat Kilon. Expression of Kilon is restricted to the brain, specifically in the cerebrum, brain stem, and hippocampus, with much less expression in the cerebellum (1). In the rat, it was shown that Kilon is already expressed in the E16 stage, and its level gradually increases during development (1). In the cerebral cortex, numerous puncta of Kilon immunoreactivity were visible in all regions, and most were densely distributed in large neurons of layer V (1). These neurons were identified as pyramidal neurons because of their soma location in layer V, large soma size, and extension of their apical dendrite to layer I (1). Kilon may be involved in cell-adhesion and may function as a trans-neural growth-promoting factor in regenerative axon sprouting in the mammalian brain (1, 2).

PRODUCT SPECIFIC NOTICES

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Global | bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL: 1.612.379.2956

Bio-Techne®

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