

DESCRIPTION

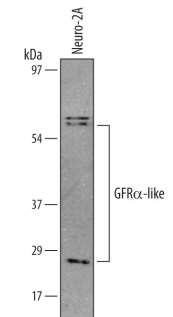
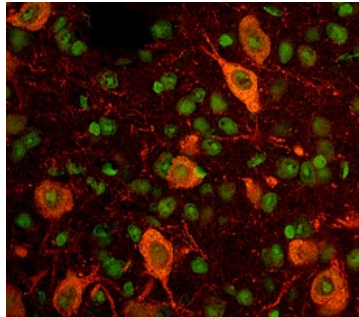
Species Reactivity	Mouse
Specificity	Detects mouse GFR α -like in direct ELISAs and Western blots. In direct ELISA, less than 1% cross-reactivity with recombinant mouse (rm) GFR α -3 and rmGFR α -4 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant mouse GFR α -like isoform A Gln20-Gly349 Accession # Q6SJE0
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μ m 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 μ g/mL	See Below
Immunohistochemistry	5-15 μ g/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Mouse GFRα-like by Western Blot. Western blot shows lysates of Neuro-2A mouse neuroblastoma cell line. PVDF membrane was probed with 1 μg/mL of Sheep Anti-Mouse GFRα-like Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5728) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). Specific bands were detected for GFRα-like at approximately 26 and 60 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.</p>	<p>Immunohistochemistry</p>  <p>GFRα-like in Mouse Brain. GFRα-like was detected in immersion fixed frozen sections of mouse brain using Sheep Anti-Mouse GFRα-like Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5728) at 15 μg/mL overnight at 4 °C. Tissue was stained using the NorthernLights™ 557-conjugated Anti-Sheep IgG Secondary Antibody (red; Catalog # NL010) and counterstained with Fluoro Nissl Green (green). View our protocol for Fluorescent IHC Staining of Frozen Tissue Sections.</p>
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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

GFR α -like (GDNF receptor-alpha-like) is a predicted 26 and 44 kDa glycoprotein (1) and distant member of the GDNFR family of proteins. It is expressed on both fetal and adult neurons of the CNS, and would appear to function as an anti-apoptotic molecule during neuronal stress. Mature mouse GFR α -like is a 374 amino acid (aa) type I transmembrane protein. It contains a 330 aa extracellular region that shows a Gas1 domain (aa 131-210), and a 23 aa cytoplasmic tail. There is one splice variant that is likely soluble and shows a four aa substitution for aa 235-393. Over aa 20-349, mouse GFR α -like shares 72% aa identity with human GFR α -like.

References:

1. Li, Z. *et al.* (2005) *J. Neurochem.* **95**:361.