

DESCRIPTION

Species Reactivity	Mouse/Rat
Specificity	Detects mouse Plexin A3 in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 5% cross-reactivity with recombinant mouse (rm) Plexin A1, rmPlexin A2, recombinant human (rh) Plexin B1, rhPlexin C1, and rhPlexin D1
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse Plexin A3 Leu34-Asp150 Accession # P70208
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.
Immunohistochemistry	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

Plexin A3 (also known as SEX) is a 220 kDa member of the Plexin A subfamily of semaphorin receptors. Mature mouse Plexin A3 is predicted to be an 1853 amino acid (aa) type I transmembrane glycoprotein that contains a 1202 aa extracellular domain (ECD) and a 629 aa cytoplasmic region. The ECD contains one semaphorin domain (aa 34-473), three plexin-semaphorin-integrin (PSI) domains (aa 492-830), and four Ig-like plexin-transcription factor (IPT) repeats (aa 841-1209). Plexin A3 interacts with neuropilins 1 and 2, and binds class 3 semaphorins. Over aa 35-150, mouse Plexin A3 is 99% and 97% aa identical to rat and human Plexin A3, respectively.

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