

DESCRIPTION

Specificity	Detects Digoxigenin labeled proteins, nucleic acids and Digoxigenin conjugated primary and secondary antibodies.
Source	Monoclonal Mouse IgG _{2A} Clone # 611621
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	KLH-coupled Digoxigenin
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *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.

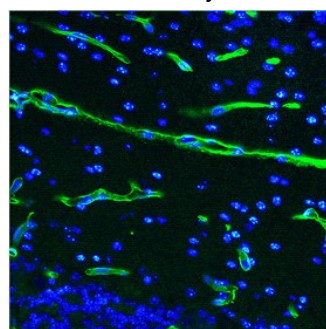
APPLICATIONS

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.

	Recommended Concentration	Sample
Immunohistochemistry	1:10 dilution	See Below

DATA

Immunohistochemistry



Netrin-4 was detected in perfusion fixed frozen sections of mouse brain (nucleus accumbens) using digoxigenin-conjugated Goat Anti-Mouse Netrin-4 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1132) at 5 µg/mL overnight at 4 °C. Tissue was stained using the Digoxigenin Alexa Fluor® 488-conjugated Monoclonal Antibody (green; Catalog # IC7520G) at a final concentration of 1X (1:10 dilution) and counterstained with DAPI (blue). Specific staining was localized to vasculature. View our protocol for [Fluorescent IHC Staining of Frozen Tissue Sections](#).

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

Digoxigenin is a hapten, a small molecule with high immunogenicity, that is used in many molecular biology applications similarly to other popular haptens such as DNP (dinitrophenol), biotin, and fluorescein. Digoxigenin is a steroid found exclusively in the flowers and leaves of the plant genus *Digitalis*. Digoxigenin can be introduced into proteins and nucleic acids for detection in a variety of assays, including ELISA, Immunohistochemistry, *in situ* hybridization, Southern blot, and Western blot.

References:

1. Décarie, A.A. et al. (1994) *Peptides* 15(3):511.
2. Hauptmann, G. et al. (1994) *Trends in Genetics* 10(8):266.
3. Goodarzi, M.T. et al. (1995) *Biochemical Society Transactions* 23(2):168S.

PRODUCT SPECIFIC NOTICES

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