

REAGENTS PROVIDED

Alkaline phosphatase (AP)-conjugated mouse monoclonal anti-Digoxigenin: Supplied as a 10X solution of antibody in 0.5 mL 0.2 M Tris buffer, pH7.3, with 0.1 mM ZnCl₂, 0.4 mM MgCl₂ and 0.09% sodium azide.

Clone #: 611621

Isotype: mouse IgG_{2A}

STORAGE

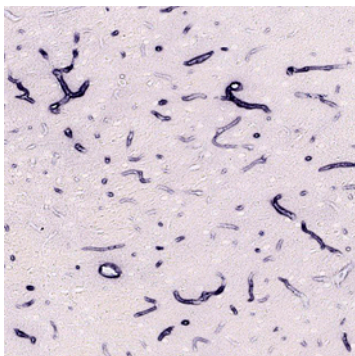
Reagents are stable for **twelve months** from the date of receipt when stored in the dark at 2-8 °C.

INTENDED USE

Designed to visualize the expression of Digoxigenin labeled proteins and nucleic acids and Digoxigenin conjugated primary and secondary antibodies by bright-field microscopy in cells and tissues.

PRODUCT DESCRIPTION

This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with Digoxigenin-KLH. The IgG fraction of the tissue culture supernatant was purified by Protein G affinity chromatography. The purified antibody was then conjugated to alkaline phosphatase.



Digoxigenin-AP

Chromogenic detection of mouse Netrin-4 in vasculature in cryostat sections of mouse brain (nucleus accumbens) using Goat Anti-Mouse Netrin-4 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1132) conjugated to Digoxigenin and AP-conjugated mouse anti-Digoxigenin (Catalog # APM7520), followed by incubation with BCIP/NBT chromogenic substrate.

BACKGROUND INFORMATION

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. Our high affinity anti-Digoxigenin antibodies are also available unconjugated or with fluorescent NorthernLights™ dyes, Alexa Fluor® 488, biotin, or HRP conjugations.

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.

IMMUNOHISTOCHEMISTRY VALIDATION

This antibody has been tested for chromogenic immunohistochemistry using normal mouse and rat brains fixed by transcardial perfusion with 4% formaldehyde/14% picric acid. Tissue sections were incubated with Digoxigenin-conjugated antibodies overnight at 4 °C. After washing with PBS, tissues were incubated with anti-Digoxigenin conjugated to alkaline phosphatase followed by incubation with BCIP/NBT substrate (blue color).

Warning: Contains sodium azide as a preservative. Sodium azide may react with lead and copper plumbing to form explosive metal azides. Flush with large volumes of water during disposal.