**REAGENTS PROVIDED**

**Horseradish peroxidase (HRP)-conjugated mouse monoclonal anti-Digoxigenin:** Supplied as a 10X solution of antibody in 0.5 mL PBS with 50 ppm ProClin® as a preservative.

**Clone #:** 611621  
**Isotype:** mouse IgG2a

**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, 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 HRP.

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 HRP-conjugated mouse anti-Digoxigenin (Catalog # HAM7520), followed by incubation with DAB 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 alkaline phosphatase conjugations.

**REFERENCES**


**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 HRP followed by incubation with DAB substrate (brown color), and counterstained with Hematoxylin (blue color).

**Warning:** Contains ProClin® as a preservative which may cause an allergic skin reaction. Wear protective gloves, clothing, eye, and face protection. Wash hands thoroughly after handling. Refer to MSDS for additional information or handling instructions.