

Anti-Digoxigenin Antibody [PSH04-39]



HA722122

| | |
|----------------------------|---|
| Product Type: | Recombinant Rabbit monoclonal IgG, primary antibodies |
| Species reactivity: | Species independent |
| Applications: | WB, IHC-P, IHC-Fr, Dot Blot, ELISA, IF-Tissue, IP |
| Clone number: | PSH04-39 |

Description: Digoxigenin (DIG) is a steroid found exclusively in the flowers and leaves of the plants *Digitalis purpurea*, *Digitalis orientalis* and *Digitalis lanata* (foxgloves), where it is attached to sugars, to form the glycosides (e.g. digoxin, lanatoside C). Digoxigenin is a hapten, a small molecule with high antigenicity, that is used in many molecular biology applications similarly to other popular haptens such as 2,4-Dinitrophenol, biotin, and fluorescein. Typically, digoxigenin is introduced chemically (conjugation) into biomolecules (proteins, nucleic acids) to be detected in further assays. Kd of the digoxigenin-antibody interaction has been estimated at ~12 nM (compare to Kd~0.1pM for the biotin-streptavidin interaction).

Immunogen: DIG-OVA

Recommended Dilutions:

| | |
|------------------|------------------|
| WB | 1:2,000 |
| IHC-P | 1:200-1:5,000 |
| IHC-Fr | 1:50-1:1,000 |
| Dot Blot | 1:2,000 |
| ELISA | 1:5,000-1:20,000 |
| IF-Tissue | 1:50-1:1,000 |
| IP | 1-2µg/sample |

Storage Buffer: PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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Images

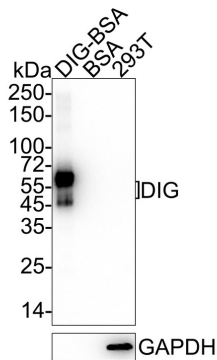


Fig1: Western blot analysis of Digoxigenin on different lysates with Rabbit anti-Digoxigenin antibody (HA722122) at 1/2,000 dilution.

Lane 1: DIG-BSA (2 ng/Lane)

Lane 2: BSA (negative) (2 ng/Lane)

Lane 3: 293T cell lysate (negative) (20 µg/Lane)

Exposure time: 20 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA722122) at 1/2,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

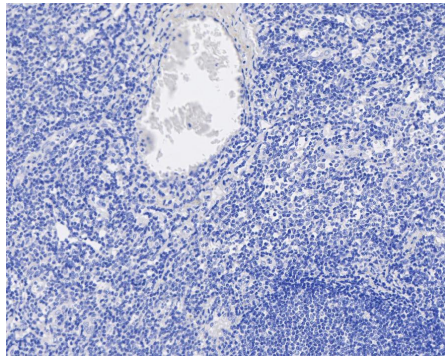


Fig2: Immunohistochemical analysis of paraffin-embedded human tonsil tissue (negative) with Rabbit anti-Digoxigenin antibody (HA722122) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA722122) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

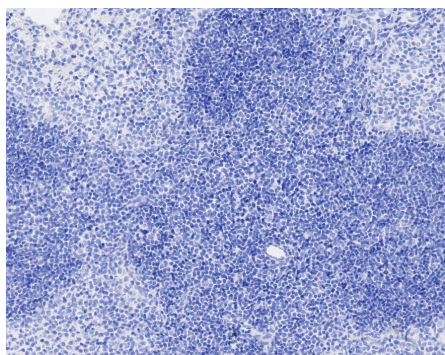


Fig3: Immunohistochemical analysis of paraffin-embedded mouse spleen tissue (negative) with Rabbit anti-Digoxigenin antibody (HA722122) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA722122) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

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Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Barratt KS et al. Production of Digoxigenin-Labeled Riboprobes for In Situ Hybridization Experiments. *Curr Protoc Mouse Biol.* 2020 Jun
2. Tanji M et al. Digoxigenin-labeled RNA probes for untranslated regions enable the isoform-specific gene expression analysis of myosin heavy chains in whole-mount in situ hybridization. *Dev Growth Differ.* 2023 Jan

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