

# Anti-Digoxigenin Antibody [PSH04-39] - BSA and Azide free

## HA750948



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Species independent
<b>Applications:</b>	WB, IHC-P, IHC-Fr, Dot Blot, ELISA, IF-Tissue, IP
<b>Clone number:</b>	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:

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

**Storage Buffer:** 1\*PBS (pH7.4).

**Storage Instruction:** Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

**Purity:** Protein A affinity purified.

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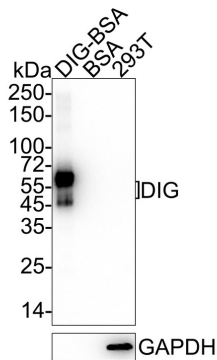
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## Images



**Fig1:** Western blot analysis of Digoxigenin on different lysates with Rabbit anti-Digoxigenin antibody (HA750948) at 1/2,000 dilution.

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

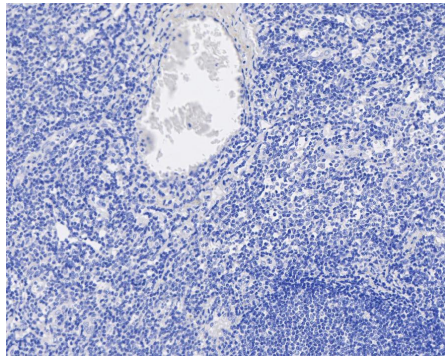
Lane 2: BSA (negative) (2 ng/Lane)

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

Exposure time: 20 seconds; ECL: K1801;

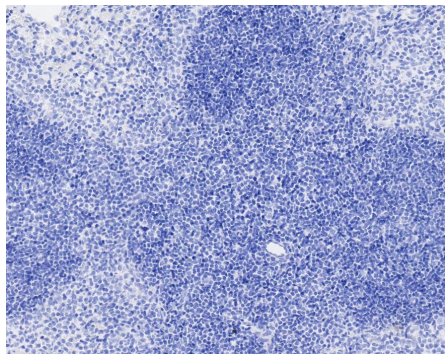
4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA750948) 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 (HA750948) 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 ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (HA750948) 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 (HA750948) 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 ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (HA750948) 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".

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### 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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