

Anti-Steroid sulfatase Antibody [PSH05-74] - BSA and Azide free

HA751024



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB, IHC-P
Molecular Wt:	Predicted band size: 65 kDa
Clone number:	PSH05-74

Description: Catalyzes the conversion of sulfated steroid precursors, such as dehydroepiandrosterone sulfate (DHEA-S) and estrone sulfate to the free steroid. Defects in STS are the cause of ichthyosis X-linked (IXL) [MIM:308100]. Ichthyosis X-linked is a keratinization disorder manifesting with mild erythroderma and generalized exfoliation of the skin within a few weeks after birth. Affected boys later develop large, polygonal, dark brown scales, especially on the neck, extremities, trunk, and buttocks.

Immunogen: Recombinant protein within Human Steroid sulfatase aa 22-184 and aa 235-583.

Positive control: Jurkat cell lysate HepG2 cell lysate, MCF7 cell lysate, Huh7 cell lysate, T-47D cell lysate, human placenta tissue.

Subcellular location: Cytoplasmic vesicle. Endoplasmic reticulum.

Database links: SwissProt: P08842 Human

Recommended Dilutions:

WB	1:2,000
IHC-P	1:3,000

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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Orders:0086-571-88062880

Technical:0086-571-89986345

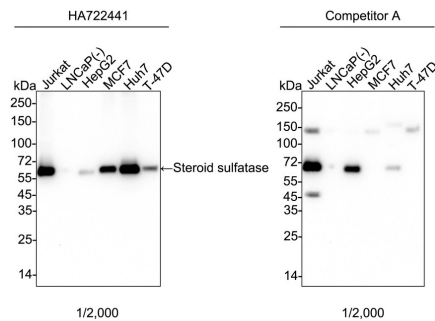
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Images

Fig1: Western blot analysis of Steroid sulfatase on different lysates with Rabbit anti-Steroid sulfatase antibody (HA751024) at 1/2,000 dilution and competitor's antibody at 1/2,000 dilution.

Lane 1: Jurkat cell lysate
 Lane 2: LNCaP cell lysate (negative)
 Lane 3: HepG2 cell lysate
 Lane 4: MCF7 cell lysate
 Lane 5: Huh7 cell lysate
 Lane 6: T-47D cell lysate



Lysates/proteins at 20 µg/Lane.

Predicted band size: 65 kDa
 Observed band size: 65 kDa

Exposure time: 59 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 (HA751024) at 1/2,000 dilution and competitor's antibody at 1/2,000 dilution were 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.

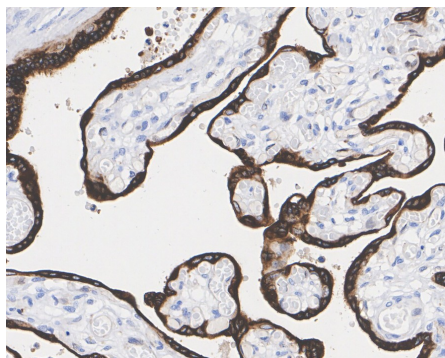


Fig2: Immunohistochemical analysis of paraffin-embedded human placenta tissue with Rabbit anti-Steroid sulfatase antibody (HA751024) at 1/3,000 dilution.

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 (HA751024) at 1/3,000 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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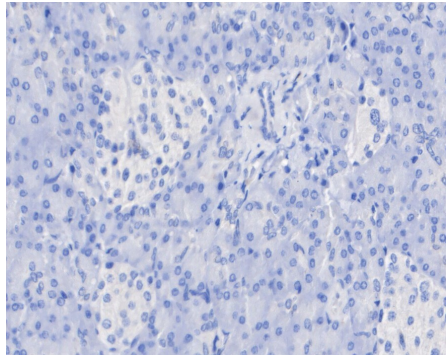


Fig3: Immunohistochemical analysis of paraffin-embedded human pancreas tissue (negative) with Rabbit anti-Steroid sulfatase antibody (HA751024) at 1/3,000 dilution.

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 (HA751024) at 1/3,000 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.

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

Background References

1. Oyama N., Satoh M., Iwatsuki K., Kaneko F. Novel point mutations in the steroid sulfatase gene in patients with X-linked ichthyosis: transfection analysis using the mutated genes. *J. Invest. Dermatol.* 114:1195-1199 (2000)
2. Matsumoto J., Ariyoshi N., Ishii I., Kitada M. Functional characterization of seven single-nucleotide polymorphisms of the steroid sulfatase gene found in a Japanese population. *J. Hum. Genet.* 58:267-272 (2013)

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