

## SOX2 Recombinant Antibody [PO00-28] - Chicken IgY (Chimeric)

# HA601499



<b>Product Type:</b>	Recombinant Chimeric Antibody IgY, primary antibodies
<b>Species reactivity:</b>	Human, Mouse
<b>Applications:</b>	IHC-Fr, WB
<b>Molecular Wt:</b>	Predicted band size: 34 kDa
<b>Clone number:</b>	PO00-28

**Description:** The differentiation of seminomas from non-seminomatous germ cell tumors can be challenging, especially, if small biopsy specimens, necrotic tumors and metastatic tumors with artifacts are encountered. A subset of germ cell tumors may require immunohistochemistry (IHC) for classification owing to unusual morphologic features, such as diffuse growth of clear cells, and tumors with glandular and/or microcytic patterns. In the mixed germ cell tumor, one component is often intermingled intimately with others such as embryonal carcinoma versus yolk sac tumor, can be overlooked. IHC will identify such an area and allow for the identification of each component of the mixed tumor more accurately and documenting them in the pathology report is recommended by WHO. Current IHC studies have shown the combination of CD30/CD117 staining plays a good role in distinguishing between embryonal carcinoma and yolk sac tumor. However, a subset of tumors may not be distinguished by this combination. Also, the characteristic membranous pattern by antibodies to CD30 and CD117 for the interpretation of the diagnosis may not be evident in limited biopsy specimens. In this respect, transcription factors, such as SOX-2, are easier to interpret due to their distinct nuclear reaction. SOX-2 has been reported as a diagnostic marker for embryonal carcinoma. SOX-2 was expressed in intratubular embryonal carcinoma, pure embryonal carcinoma and in the embryonal carcinoma component of mixed germ cell tumor in all cases. But, SOX-2 expression has not been found in seminoma, yolk sac tumor, and choriocarcinoma in almost all cases.

**Immunogen:** Recombinant protein within human SOX2 aa 1-317.

**Positive control:** Mouse cerebral cortex, NCCIT cell lysate, F9 cell lysate.

**Subcellular location:** Nucleus.

**Database links:** SwissProt: P48431 Human | P48432 Mouse

**Recommended Dilutions:**

**IHC-Fr** 1:200

**WB** 1:5,000

**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.

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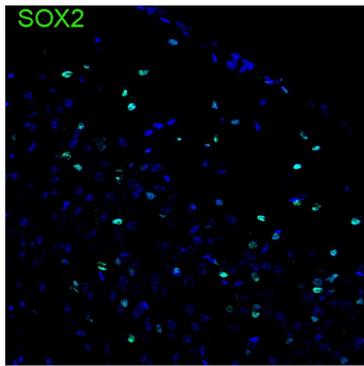
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## Images

**Fig1:** Application: IHC-Fr

Species: Mouse

Site: cerebral cortex

Sample: Frozen section

Antibody concentration: 1/200

Antigen retrieval: Not required

**Fig2:** Western blot analysis of SOX2 on different lysates with Chicken anti-SOX2 antibody (HA601499) at 1/5,000 dilution.

Lane 1: NCCIT cell lysate

Lane 2: F9 cell lysate

Lysates/proteins at 15 µg/Lane.

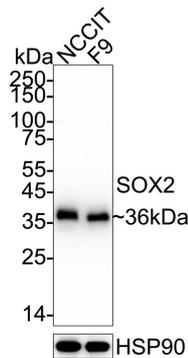
Predicted band size: 34 kDa

Observed band size: 36 kDa

Exposure time: 40 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 (HA601499) at 1/5,000 dilution was used in primary antibody dilution (K1803) at 4°C overnight. Goat Anti-Chicken IgY - HRP Secondary Antibody (HA1046) at 1/50,000 dilution was used for 1 hour at room temperature.



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

## Background References

1. Novak D. et. al. SOX2 in development and cancer biology. Semin Cancer Biol. 2020 Dec
2. Porter L. et. al. SOX2 and squamous cancers. Semin Cancer Biol. 2020 Dec

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