

SOX2 Antibody

Datasheet

For Research Use Only

Description	Catalog No.	Size
SOX2 Concentrate	FP-A069-01	0.1 ml
SOX2 Concentrate	FP-A069-05	1 ml
SOX2 Predilute	FP-A069-70	7 ml

Description

SOX2, also known as SRY (Sex Determining Region Y)-Box 2, is a transcription factor that acts to regulate pluripotency of undifferentiated embryonic stem cells, and to regulate gene expression in the stomach. This diagnostic grade SOX2 IVD antibody is used to detect melanoma, testicular germ cell tumour, cervical carcinoma, lung cancer, breast cancer with basal cell phenotype, and teratoma of the central nervous system. SOX2 has been reported as a predictor of poor outcome in stage I lung adenocarcinomas. Anti-SOX2 is also used to recognize squamous cell carcinomas of the lung and gastrointestinal tract, and may be useful for detecting embryonal carcinoma.

Specifications

Clone	IHC665
Source	Mouse Monoclonal
Applications	IHC (P)
Formulation	Tris Buffer, pH 7.3 - 7.7, with 1% BSA and <0.1% Sodium Azide

IHC Procedure*

Positive Control Tissue	Lung Squamous Carcinoma
Concetrated Dilution	1:50 – 1:200
Pretreatment	Perform heat-induced epitope retrieval (HIER) at pH 9 for 10 to 30 minutes
Incubation Time and Temp	10 to 30 minutes at room temperature
Detection	Refer to the detection system manual

*Result should confirmed by an established diagnostic procedure.

Result

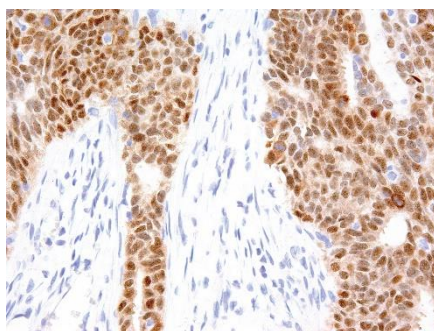


Figure. SOX2 on Cervix

Storage and Handling

Must store the reagent at 2-8 °C. Do not freeze. Do not use the reagent after expiration date on vial. To ensure proper stability and delivery of the antibody after each run, replace the cap and immediately place the bottle in a refrigerator in an upright position. Positive and negative controls should be simultaneously run with unknown specimens, as there are no conclusive characteristics to suggest instability of the antibody.

Precautions

The product is for research use only. Do not use for diagnosis purpose. Ensure proper handling procedures are used with all reagents. Always wear laboratory coats, disposable gloves, and other appropriate laboratory equipment when handling reagents. Do not ingest reagents, and avoid contact with eyes and mucous membranes. Wash eyes with copious amounts of water if contact occurs.

References

1. **Rizzino A.** “Sox2 and Oct-3/4: a versatile pair of master regulators that orchestrate the self-renewal and pluripotency of embryonic stem cells. *Wiley Interdiscip Rev Syst Biol Med.* 2009 Sep-Oct;1(2):228-236.
2. **Laga AC, et al.** “Expression of the embryonic stem cell transcription factor SOX2 in human skin: relevance to melanocyte and merkel cell biology.” *Am J Pathol.* 2010 Feb;176(2):903-13.
3. **Ji J, et al.** “Expression of Sox2 in human cervical carcinogenesis.” *Hum Pathol.* 1985 Mar;16(3):287-93.
4. **Rodriguez-Pinilla SM, et al.** “Sox2: a possible driver of the basal-like phenotype in sporadic breast cancer.” *Mod Pathol.* 2007 Apr;20(4):474-81. Epub 2007 Mar 2.
5. **Long KB, et al.** “SOX2 is highly expressed in squamous cell carcinomas of the gastrointestinal tract.” *Hum Pathol.* 2009 Dec;40(12):1768-73.
6. **Sholl LM, et al.** “Sox2 expression in pulmonary non-small cell and neuroendocrine carcinomas.” *Appl Immunohistochem Mol Morphol.* 2010 Jan;18(1):55-61.
7. **Tsuta K, et al.** “Utility of 10 immunohistochemical markers including novel markers (desmocollin-3, glypican 3, S100A2, S100A7, and Sox-2) for differential diagnosis of squamous cell carcinoma from adenocarcinoma of the Lung.” *J Thorac Oncol.* 2011 Jul;6(7):1190-9.
8. **Gopalan A, et al.** “Testicular mixed germ cell tumors: a morphological and immunohistochemical study using stem cell markers, OCT3/4, SOX2 and GDF3, with emphasis on morphologically difficult-to-classify areas.” *Mod Pathol.* 2009 Aug;22(8):1066-74.

Technical Support

Contact FemtoPath Technical Support at +886232338585 or email to femtopath@hongjing.com.tw for questions regarding this product.