

Mouse Anti-SOX17 [3.5CH]: MC0586, MC0586RTU7

Intended Use: For Research Use Only

Description: SRY-related high mobility group box (SOX) proteins comprise a large family of widely conserved transcription factors that play important roles in development. 30 SOX genes have been identified. SOX17 plays essential roles in endoderm specification and the maintenance of the hematopoietic stem cell pool and for vascular morphogenesis during development. SOX17 expresses in fallopian tube epithelium, endometrial glands, endocervical glandular epithelium, testis (germ cell precursors of spermatocytes), and vascular endothelial cells. It does not express in bladder, brain, breast, colon, heart, kidney, liver, lung, pancreas, prostate, skin, spleen, small intestine, stomach, thyroid, tonsil. Similar to PAX8, SOX17 is an ovarian cancer master transcription factor. More studies show that Studies identified that SOX17 is a sensitive and specific marker for ovarian nonmucinous carcinomas and endometrial carcinomas. Furthermore, SOX17 positive expression in endothelial cells makes it an internal positive marker. However, unlike PAX8, SOX17 is predominately negative in other tumor types, including kidney and thyroid tumors, thus differentiates it from PAX8.

Specifications

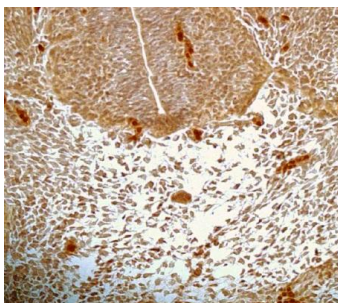
Clone: 3.5CH
 Source: Mouse
 Isotype: IgG1k
 Reactivity: Human, mouse
 Immunogen: Recombinant human transcription factor SOX17 protein
 Localization: Nucleus
 Formulation: Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
 Storage: Store at 2°- 8°C
 Applications: IHC, ICC/IF, IP, WB
 Package:

Description	Catalog No.	Size
SOX17 Concentrated	MC0586	1 ml
SOX17 Prediluted	MC0586RTU7	7 ml

IHC Procedure*

Positive Control Tissue: Fallopian tube epithelium, testis, seminoma, nonmucinous carcinomas
 Concentrated Dilution: 25-200
 Pretreatment: Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C
 Incubation Time and Temp: 30-60 minutes @ RT
 Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



E11.5 mouse embryo stained with anti-SOX17 using DAB

References:

1. Stains & CD markers SOX17. <https://www.pathologyoutlines.com/topic/stainsSOX17.html>.
2. Identifying SOX17 as a Sensitive and Specific Marker for Ovarian and Endometrial Carcinomas. Nada Shaker, et al. Modern Pathology. Volume 36, Issue 1, January. 2023.
3. Multi-lineage Lung Regeneration by Stem Cell Transplantation across Major Genetic Barriers. Hillel-Karniel C, et al. Cell Rep 30:807-819.e4, 2020.