SOX2 Antibody
Product Information Sheet

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Background

Sox2 (SRY-box transcription factor 2) is a critical transcription factor involved in the regulation of embryonic development and the maintenance of pluripotency in stem cells. As a member of the SOX (SRY-related HMG-box) family of transcription factors, Sox2 plays a pivotal role in maintaining self-renewal in undifferentiated embryonic stem cells by partnering with other core pluripotency factors such as Oct4 and Nanog. Sox2 expression is tightly regulated during early embryogenesis and is also observed in neural progenitor cells, where it contributes to neurogenesis and neural stem cell maintenance. Due to its essential roles in development, stem cell biology, and reprogramming, Sox2 is widely used as a biomarker for pluripotent stem cells and neural progenitors. The Sox2 antibody is a valuable tool for applications including immunocytochemistry, Western blotting, flow cytometry, and immunohistochemistry to detect and characterize stem and progenitor cell populations.

General Information

Applications	Product Reactivity	Host species	Sequence	Catalog #
Immunocytochemistry (ICC), Western Blot (WB)	Human, Mouse	Rabbit	NH2-MYNMM ETELK PPGPQ QTSGG C-COOH	ABSOX2-50-P ABSOX2-100-P

Product Usage Information

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For optimal results, follow your typical application protocol at the recommended dilution listed below. This antibody has been validated using ICC staining and WB (see back for images).

Application	Recommended Dilution
Immunocytochemistry	1:100 – 1:200
Western Blot	1:500 - 1:1000

Storage

Supplied in 1x PBS, 1% BSA, 20% Glycerol, 0.025% ProClin 300. Store undiluted at -20°C. Not recommended for storage in frost-free freezers.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (ex. ICC).

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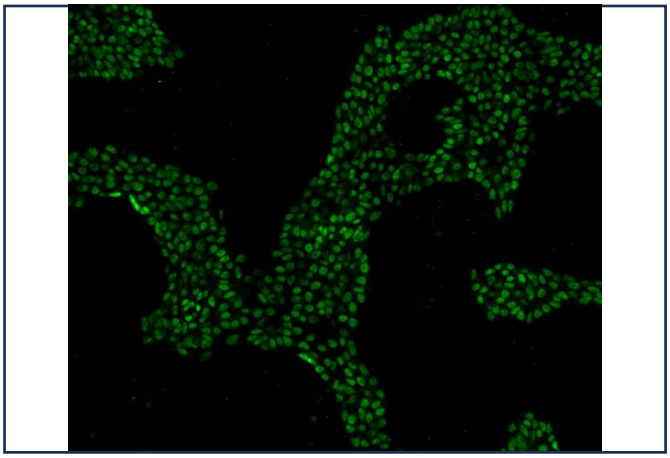
Product Data

SOX2 antibody detects SOX2 protein at nucleus in human iPSCs sourced from NeuraCell CORE Facility by immunocytochemical analysis.

Green: SOX2 antibody - secondary goat anti rabbit 488 (Jackson 111-545-144) diluted 1:500.



Western blot analysis from iPSCs sourced from NeuraCell CORE Facility using SOX2 antibody.