

SOX2 Antibody (ProClin 300 Free) StemCultures

Product Information Sheet

StemCultures | ☎ +1 518 621 0848 | ✉ support@stemcultures.com | 🌐 www.stemcultures.com | 📷 @StemCultures | 📺 Stem Cultures

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)	Human, Mouse	Rabbit	NH2-MYNMM ETELK PPGPQ QTSGG C-COOH	ABSOX2-50 ABSOX2-100

Product Usage Information

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

Application	Recommended Dilution
Immunocytochemistry	1:100 – 1:200

Storage Supplied in 1x PBS, 1% BSA, 20% Glycerol. 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).

Product Data

SOX2 antibody detects SOX2 protein at nucleus in human iPSCs by immunocytochemical analysis.

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

