Human SOX17 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF1924

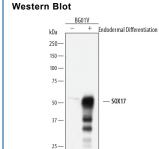
DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human SOX17 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human (rh) SOX2, rhSOX6, rhSOX15 and rhSOX18 is observed.		
Source	Polyclonal Goat IgG		
Purification	Antigen Affinity-purified		
Immunogen	E. coli-derived recombinant human SOX17 Asp177-Val414 Accession # Q9H6l2		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.		

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

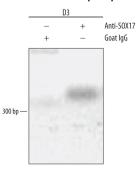
	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below
Chromatin Immunoprecipitation (ChIP)	5 μg/5 x 10 ⁶ cells	See Below
Immunocytochemistry	5-15 μg/mL	See Below
Simple Western	10 μg/mL	See Below

DATA



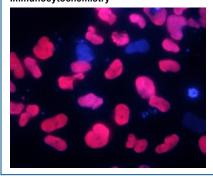
Detection of Human SOX17 by Western Blot. Western blot shows lysates of BG01V human embryonic stem cells untreated (-) or endodern differentiated (+). PVDF membrane was probed with 1 µg/mL of Goat Anti-Human SOX17 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1924) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for SOX17 at approximately 55 KDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Chromatin Immunoprecipitation (ChIP)



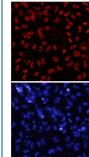
Detection of SOX17-regulated Genes by Chromatin Immunoprecipitation. Endodermdifferentiated D3 mouse embryonic stem cell line was fixed using formaldehyde, resuspended in lysis buffer, and sonicated to shear chromatin. SOX17/DNA complexes were immunoprecipitated using 5 µg Goat Anti-Human SOX17 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1924) or control antibody (Catalog # AB-108-C) for 15 minutes in an ultrasonic bath, followed by Biotinylated Anti-Goat IgG Secondary Antibody (Catalog # BAF109). Immunocomplexes were captured using 50 µL of MagCellect Streptavidin Ferrofluid (Catalog # MAG999) and DNA was purified using chelating resin solution. The p21 promoter was detected by standard PCR.

Immunocytochemistry



SOX17 in B16 Mouse Cell Line.
SOX17 was detected in immersion fixed B16 mouse melanoma cell line using 10 µg/mL Goat Anti-Human SOX17 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1924) for 3 hours at room temperature. Cells were stained with the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

Immunocytochemistry



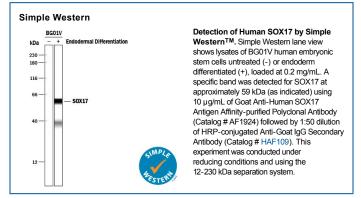
SOX17 in Human BG01V Cells. SOX17 was detected in immersion fixed endoderm differentiated BG01V human embryonic stem cells using 10 µg/mL Goat Anti-Human SOX17 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1924) for 3 hours at room temperature. Cells were stained with the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red, upper panel; Catalog # NL001) and counterstained with DAPI (blue, lower panel). View our protocol for Fluorescent ICC Staining of Cells on





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PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.2 mg/mL in sterile PBS.

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

SOX17 is a member of the SOX family of transcription factors that bind DNA via a high mobility group (HMG) domain. SOX17 is suggested to play an important role in endoderm development (1, 2).

References:

- 1. Kanai-Azuma, M. et al. (2002) Development 129:2367.
- 2. Katoh, M. et al. (2002) Int. J. Mol. Med. 9:153.

