

Human SOX5 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF5286

DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects endogenous human SOX5 in Western blots.		
Source	Polyclonal Goat IgG		
Purification	Antigen Affinity-purified		
Immunogen	E. coli-derived recombinant human SOX5 Met417-Asn763 Accession # P35711		
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 either lyophilized or as a 0.2 μm filtered solution in PBS.		

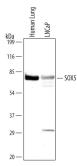
APPLICATIONS

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

DATA

Western Blot



Detection of Human SOX5 by Western Blot. Western blot shows lysates of human lung tissue and exponentially growing LNCaP human prostate cancer cell line whole cell extract. PVDF membrane was probed with 1 µg/mL of Human SOX5 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5286) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for SOX5 at approximately 80 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

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

Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 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

SOX5 (SRY-related HMG box) is a 75-80 kDa Group D member of the SOX family of DNA-binding proteins. It is expressed in fetal chondrocytes and skeletal muscle, with a short form appearing in spermatids. SOX5 form homodimers and heterodimerizes with SOX6. Human SOX5 is 763 amino acids (aa) in length and contains two coiled-coil regions (aa 193-274 and 448-515), plus one Q/glutamine (aa 234-272) and one HMG box (aa 556-624). HMG domains participate in DNA-binding and protein-protein interaction. There are two alternate start sites at Met14 and Met417 (which creates a short/testis form), plus one variant with a three aa substitution for aa 389-763, another variant with a two aa substitution for aa 1-388, and a third variant with a one aa substitution for aa 534-763. Over aa 417-763, human SOX5 is 97% aa identical to mouse SOX5.

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