

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human TBX3 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human (rh) TBX2, rhTBX6, and rhTBX20 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human TBX3 Ser321-Thr483 Accession # O15119
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.

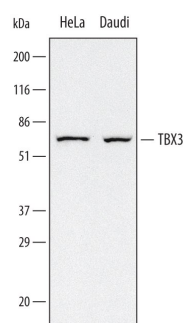
APPLICATIONS

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	1-2 µg/mL	See Below
Immunocytochemistry	5-15 µg/mL	See Below

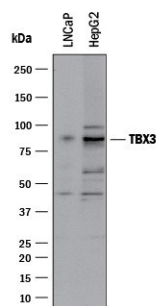
DATA

Western Blot



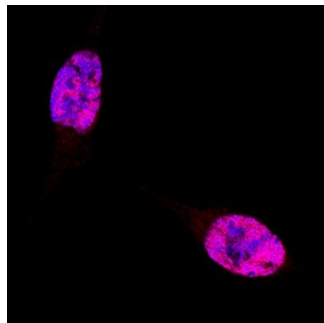
Detection of Human TBX3 by Western Blot. Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line and Daudi human Burkitt's lymphoma cell line. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human TBX3 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4509) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for TBX3 at approximately 80 kDa (as indicated). This experiment was conducted under reducing conditions and using [Immunoblot Buffer Group 3](#).

Western Blot



Detection of Human TBX3 by Western Blot. Western blot shows lysates of LNCaP human prostate cancer cell line and HepG2 human hepatocellular carcinoma cell line. PVDF membrane was probed with 2 µg/mL of Goat Anti-Human TBX3 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4509) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). A specific band was detected for TBX3 at approximately 80 kDa (as indicated). This experiment was conducted under reducing conditions and using Western Blot Buffer Group 1.

Immunocytochemistry



TBX3 in LNCaP Human Cell Line. TBX3 was detected in immersion fixed LNCaP human prostate cancer cell line using Goat Anti-Human TBX3 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4509) at 5 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). Specific staining was localized to nuclei. View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

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. <ul style="list-style-type: none"> • 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

TBX3 belongs to the T-box family of transcription factors, which are involved in regulation of developmental processes. TBX3 acts as a transcriptional repressor regulating anterior/posterior axis of the forelimb. Mutations in TBX3 are associated with ulnar-mammary syndrome, affecting limb, apocrine gland, tooth, hair, and genital development. TBX3 has 3 splice isoforms.