

DESCRIPTION

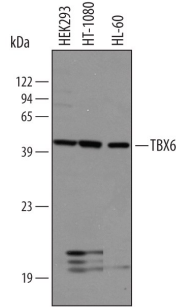
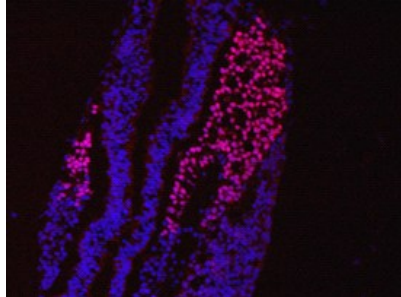
Species Reactivity	Human
Specificity	Detects human TBX6 in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human TBX6 Met1-Arg280 Accession # O95947
Formulation	Lyophilized from a 0.2 µm filtered solution 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
Immunohistochemistry	5-15 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human TBX6 by Western Blot. Western blot shows lysates of HEK293 human embryonic kidney cell line, HT1080 human fibrosarcoma cell line, and HL-60 human acute promyelocytic leukemia cell line. PVDF membrane was probed with 1 µg/mL of Human TBX6 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4744) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for TBX6 at approximately 45 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.</p>	<p>Immunohistochemistry</p>  <p>TBX6 in Embryonic Mouse Mesoderm. TBX6 was detected in immersion fixed frozen sections of embryonic mouse mesoderm (E9.5) using 10 µg/mL Human TBX6 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4744) overnight at 4 °C. Tissue was stained with the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). View our protocol for Fluorescent IHC Staining of Frozen Tissue Sections.</p>
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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
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

TBX6 (T-box protein 6) is a 47 kDa member of the T-box family of transcriptional regulators. It is expressed during embryogenesis, plays a role in presomitic mesoderm development, and promotes delta-like 1 transcription. Human TBX6 is 436 amino acids (aa) in length. It contains one T-box DNA-binding domain (aa 90-277). There is one alternate splice form that shows a 15 aa substitution for aa 281-436. Over aa 1-280, human TBX6 shows 94% and 90% aa identity with canine and mouse TBX6, respectively.