

DESCRIPTION

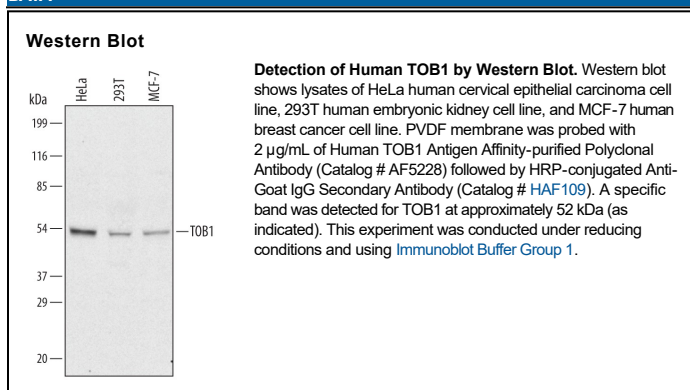
Species Reactivity	Human
Specificity	Detects endogenous human TOB1 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human TOB1 Met1-Asn345 Accession # P50616
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS 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	2 µg/mL	See Below

DATA



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

TOB1 (transducer of ErbB2 protein 1) is a 45 kDa member of the BTG family of anti-proliferative proteins. It is ubiquitously expressed, and serves to negatively regulate cell cycle progression from G₀/G₁ to S phase. This is accomplished by TOB1 suppression of cyclin D1 expression, which is abrogated by Erk2-mediated phosphorylation of Ser152/154/164 in response to growth factor stimulation. Human TOB1 is 345 amino acids (aa) in length and contains one NES (aa 2-14), a bipartite NLS (aa 18-40), a BTG domain (aa 42-130) that possesses antiproliferative activity, and two PAM domains (aa 133-143 and 268-278) that bind inducible PABP and regulate gene transcription. Human and mouse TOB1 (aa 1-345) are 94% aa identical when fourteen mouse-specific glutamines are excluded from the alignment.