

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
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

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

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

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