Data Sheet (Cat.No.TMAC-04076)

Anti-Phospho-TOB1 (Ser164) Polyclonal Antibody

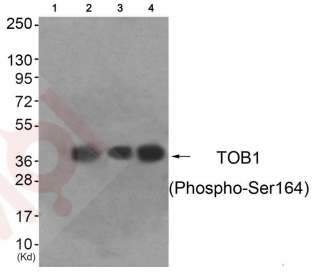
Product Details

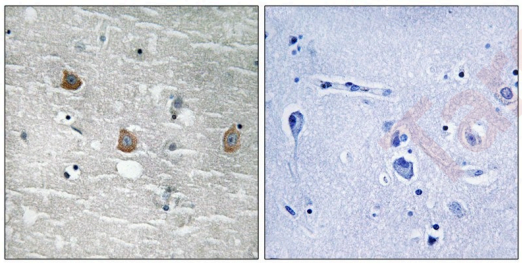
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Actual: 40 kDa.
Purification:	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide.

Applications

Verified Activity:

1. Western blot analysis of extracts from HeLa cells (Lane 2), A549 cells (Lane 3) and HepG2 cells (Lane 4), using TOB1 (Phospho-Ser164) Antibody TMAC-04076. The lane on the left is treated with antigen-specific peptide.
2. Immunohistochemical analysis of paraffin-embedded human brain tissue using TOB1 (Phospho-Ser164) antibody TMAC-04076 (left) or the same antibody preincubated with blocking peptide (right).





Application:	IHC,WB
Recommended	WB: 1:500-1000; IHC: 1:50-100

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Peptide sequence around phosphorylation site of Serine 164(A-V-S(p)-P-T) derived from Human TOB1
Antigen Species:	Human
Uniprot ID:	P50616
Synonyms:	TOB1 (p-S164);p-TOB1 (S164);p-TOB1 (Ser164);TOB1 (p-Ser164)

Research Background

This gene encodes a member of the tob/btg1 family of proliferative proteins that have the potential to regulate cell growth. When exogenously expressed, this protein supresses cell growth in tissue culture. The protein undergoes phophorylation by a serine/threonine kinase, 90 kDa ribosomal S6 kinase. Interactions of this protein with the v-erb-b2 erythroblastic leukemia viral oncogene homolog 2 gene product p185 interferes with growth suppression. This protein inhibits T cell proliferation and transcription of cytokines and cyclins. The protein interacts with both mothers against decapentaplegic Drosophila homolog 2 and 4 to enhance their DNA binding activity. This interaction inhibits interleukin 2 transcription in T cells.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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