

TOB1 (Phospho-Ser164) Antibody

Catalog No: #11816



Package Size: #11816-1 50ul #11816-2 100ul

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Description

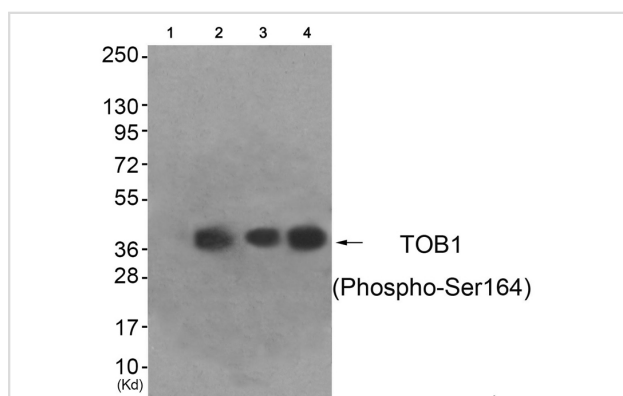
Product Name	TOB1 (Phospho-Ser164) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Applications	WB IHC
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous levels of TOB1 only when phosphorylated at serine 164.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of Serine 164(A-V-S(p)-P-T) derived from Human TOB1.
Target Name	TOB1
Modification	Phospho
Other Names	TOB; Transducer of erbB-2 1;
Accession No.	Swiss-Prot#: P50616; NCBI Gene#: 10140; NCBI Protein#: NP_001230806.1.
SDS-PAGE MW	40kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C/1 year

Application Details

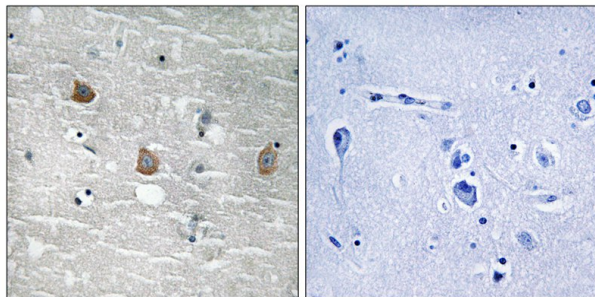
Western blotting: 1:500~1:1000

Immunohistochemistry: 1:50~1:100

Images



Western blot analysis of extracts from HeLa cells (Lane 2), A549 cells (Lane 3) and HepG2 cells (Lane 4), using TOB1 (Phospho-Ser164) Antibody #11816. The lane on the left is treated with antigen-specific peptide.



Immunohistochemical analysis of paraffin-embedded human brain tissue using TOB1 (Phospho-Ser164) antibody #11816 (left) or the same antibody preincubated with blocking peptide (right).

Background

This gene encodes a member of the *tob/btg1* family of anti-proliferative proteins that have the potential to regulate cell growth. When exogenously expressed, this protein suppresses cell growth in tissue culture. The protein undergoes phosphorylation 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.

Matsuda S., *Oncogene* 12:705-713(1996).

Ebert L., Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.

Kalnina N., Submitted (OCT-2004) to the EMBL/GenBank/DDBJ databases.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.