



## Rabbit Anti-phospho-TOB (Ser164) antibody

SL18165R

|                               |   |
|-------------------------------|---|
| <b>Product Name:</b>          | phospho-TOB (Ser164)  |
| <b>Chinese Name:</b>          | 磷酸化HER2受体转换蛋白抗体   |
| <b>Alias:</b>                 | TOB (phospho S164); p-TOB (phospho S164); APRO 6; APRO6; MGC104792; MGC34446; PIG 49; PIG49; Proliferation inducing gene 49; Protein Tob1; RP23 244C22.1; TOB 1; Tob 1 protein; TOB; TOB1; Tob1 protein; Transducer of ERBB 2 1; Transducer of erbB 2; Transducer of ERBB2 1; Transducer of erbB2; Trob; TROB 1; TROB1.       |
| <b>Organism Species:</b>      | Rabbit  |
| <b>Clonality:</b>             | Polyclonal  |
| <b>React Species:</b>         | Human,Mouse,Rat,Chicken,Dog,Cow,Horse,Sheep,  |
| <b>Applications:</b>          | ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair)<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user.  |
| <b>Molecular weight:</b>      | 38kDa   |
| <b>Cellular localization:</b> | The nucleuscytoplasmic  |
| <b>Form:</b>                  | Lyophilized or Liquid   |
| <b>Concentration:</b>         | 1mg/ml  |
| <b>immunogen:</b>             | KLH conjugated synthesised phosphopeptide derived from human TOB1 around the phosphorylation site of Ser164:AV(p-S)PT   |
| <b>Lsotype:</b>               | IgG   |
| <b>Purification:</b>          | affinity purified by Protein A  |
| <b>Storage Buffer:</b>        | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.  |
| <b>Storage:</b>               | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |
| <b>PubMed:</b>                | <a href="#">PubMed</a>  |
| <b>Product Detail:</b>        | This gene encodes a member of the transducer of erbB-2 /B-cell translocation gene   |

protein family. Members of this family are anti-proliferative factors that have the potential to regulate cell growth. The encoded protein may function as a tumor suppressor. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Aug 2011]

**Function:**

The Tob/Btg family of proteins consists of a large number of members. These proteins have a common domain in their amino terminal end and may have anti-proliferative activity in various cell types. The Tob protein was identified in a search for molecules that interact with the receptor tyrosine kinase ErbB2. Active ErbB2 has a negative effect on the anti-proliferative activity of Tob. However, Tob is phosphorylated on serine and threonine residues but not on tyrosine, suggesting that active ErbB2 activates a Ser/Thr kinase that phosphorylates Tob. Unphosphorylated Tob suppresses expression of cyclin D1. It was shown that active p90Rsk1 kinase (known to be activated by protein-tyrosine kinase receptor) phosphorylates Tob on serine and threonine residues in vitro. In addition, Erk1/Erk2 MAP kinases phosphorylate Tob in vivo and in vitro, resulting in suppression of the anti-proliferative activity of Tob. Homozygous Tob knockout mice develop greater bone mass resulting from increased numbers of osteoblasts. Furthermore, it has been shown in osteoblasts, that upon BMP2 (bone morphogenetic protein) activation, Tob associates with receptor regulated Smads (Smad 1, 5, and 8). Thus, osteoblast proliferation and differentiation is negatively regulated by Tob protein through the Smad proteins.

**SWISS:**  
P50616

**Gene ID:**  
10140

**Database links:**

[Entrez Gene: 10140](#) Human

[Entrez Gene: 22057](#) Mouse

[Entrez Gene: 170842](#) Rat

[Omim: 605523](#) Human

[SwissProt: P50616](#) Human

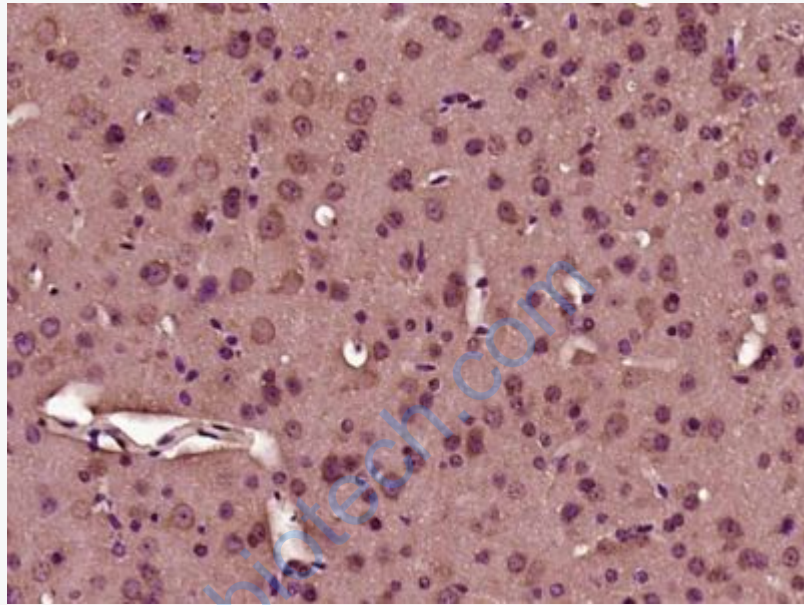
[SwissProt: Q61471](#) Mouse

[SwissProt: Q8R5K6](#) Rat

[Unigene: 531550](#) Human

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



**Picture:**

Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-TOB (Ser164)) Polyclonal Antibody, Unconjugated (SL18165R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.