

## Anti-TK1 Antibody (Center)

Catalog Number: M04850-1

### About TK1

E3 ubiquitin-protein ligase involved in Golgi membrane fusion and regulation of small GTPases. Acts as a regulator of Golgi membrane dynamics during the cell cycle: recruited to Golgi membrane by Rab proteins and regulates postmitotic Golgi membrane fusion. Acts by mediating ubiquitination during mitotic Golgi disassembly, ubiquitination serving as a signal for Golgi reassembly later, after cell division. Specifically interacts with GTP-bound RAC1, mediating ubiquitination and subsequent degradation of active RAC1, thereby playing a role in host defense against pathogens. May also act as a transcription regulator via its interaction with RARB.

### Overview

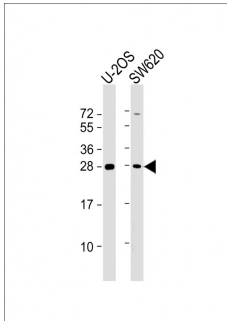
|                      |  |
|----------------------|--|
| Product Name         | Anti-TK1 Antibody (Center)   |
| Reactive Species     | Human  |
| Description          | Boster Bio Anti-TK1 Antibody (Center) (Catalog # M04850-1). Tested in WB, IHC-P, Flow Cytometry application(s). This antibody reacts with Human. |
| Application          | Flow Cytometry, IHC-P, WB  |
| Clonality            | Polyclonal   |
| Formulation          | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.  |
| Storage Instructions | Maintain refrigerated at 2-8°C for up to 2 weeks. For long-term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.         |
| Host                 | Rabbit   |
| Uniprot ID           | P04183   |

### Technical Details

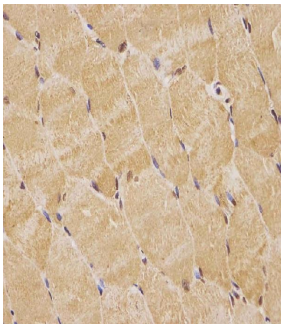
|                            |  |
|----------------------------|--|
| Immunogen                  | This TK1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 139-173 amino acids from the Central region of human TK1.   |
| Predicted Reactive Species | Bovine   |
| Isotype                    | Rabbit IgG   |
| Purification               | This antibody is purified through a protein A column, followed by peptide affinity purification.   |
| Suggested Dilutions        | Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.<br>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.<br>Some PubMed article(s) citing the expression level of this target are as follows:<br>Boster Bio's internal QC testing used: |

|  |                                       |
|--|---------------------------------------|
|  | WB: 1:2000<br>IHC-P: 1:25<br>FC: 1:25 |
|--|---------------------------------------|

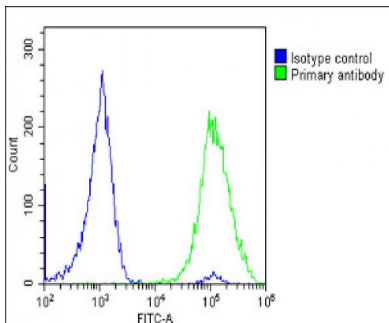
## Anti-TK1 Antibody (Center) (M04850-1) Images



All lanes : Anti-TK1 Antibody (Center) at 1:2000 dilution  
Lane 1: U-2OS whole cell lysate  
Lane 2: SW620 whole cell lysate  
Lysates/proteins at 20 µg per lane.  
Secondary  
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.  
Predicted band size : 25 kDa  
Blocking/Dilution buffer: 5% NFDM/TBST.



M04850-1 staining TK1 in human skeletal muscle tissue sections by Immunohistochemistry (IHC-P -paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hour at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



Overlay histogram showing U-2 OS cells stained with M04850-1 (green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (M04850-1, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was rabbit IgG1 (1 µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >10,000 events was performed.

## Submit a product review to Biocompare.com

Submit a review of this product to Biocompare.com to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



Anti-TK1 Antibody (Center)