

## Anti-TMPRSS2 Rabbit Monoclonal Antibody

Catalog Number: M00666

### About TMPRSS2

Dynamin-related GTPase required for mitochondrial fusion and regulation of apoptosis. May form a diffusion barrier for proteins stored in mitochondrial cristae. Proteolytic processing in response to intrinsic apoptotic signals may lead to disassembly of OPA1 oligomers and release of the caspase activator cytochrome C (CYCS) into the mitochondrial intermembrane space.

### Overview

|                      |                                                                                                                                                                           |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name         | Anti-TMPRSS2 Rabbit Monoclonal Antibody                                                                                                                                   |
| Reactive Species     | Human, Mouse, Rat                                                                                                                                                         |
| Description          | Boster Bio Anti-TMPRSS2 Rabbit Monoclonal Antibody catalog # M00666. Tested in WB, IHC, ICC/IF, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat. |
| Application          | Flow Cytometry, IF, IHC, ICC, WB                                                                                                                                          |
| Clonality            | Monoclonal 23T34                                                                                                                                                          |
| Formulation          | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.                                                       |
| Storage Instructions | Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.                                |
| Host                 | Rabbit                                                                                                                                                                    |
| Uniprot ID           | O15393                                                                                                                                                                    |

### Technical Details

|                     |                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunogen           | A synthesized peptide derived from human TMPRSS2                                                                                                                                                                                                                                                                                                                                         |
| Isotype             | IgG                                                                                                                                                                                                                                                                                                                                                                                      |
| Form                | Liquid                                                                                                                                                                                                                                                                                                                                                                                   |
| Concentration       | Actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.                                                                                                                                                                                                                                                                                             |
| Purification        | Affinity-chromatography                                                                                                                                                                                                                                                                                                                                                                  |
| 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 1:500-1:2000<br>IHC 1:100-1:500<br>ICC/IF 1:100-1:500<br>FC 1:60 |
|--|---------------------------------------------------------------------|

## Anti-TMPRSS2 Rabbit Monoclonal Antibody (M00666) Images

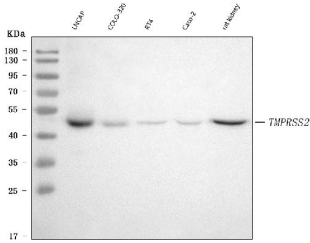


Figure 1. Western blot analysis of TMPRSS2 using anti-TMPRSS2 antibody (M00666).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human LNCAP whole cell lysates,

Lane 2: human COLO-320 whole cell lysates,

Lane 3: human RT4 whole cell lysates,

Lane 4: human Caco-2 whole cell lysates,

Lane 5: rat kidney tissue lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-TMPRSS2 antigen affinity purified monoclonal antibody (Catalog # M00666) at 1:500 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for TMPRSS2 at approximately 54 kDa. The expected band size for TMPRSS2 is at 54 kDa.

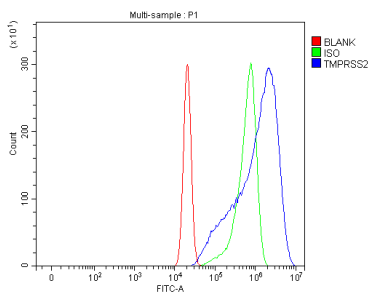
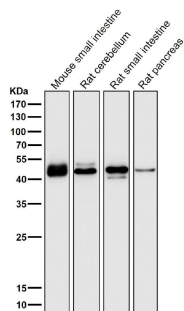


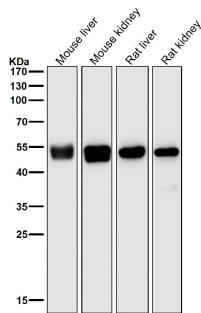
Figure 2. Flow Cytometry analysis of U2OS cells using anti-TMPRSS2 antibody (M00666).

Overlay histogram showing U2OS cells stained with M00666 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-TMPRSS2 Antibody (M00666) at 1:60 dilution for 30 min at 20°C. DyLight®488 conjugated goat anti-mouse IgG (BA1126) at 1:60 was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was mouse IgG at 1:60 used under the same conditions. Unlabelled sample (Red line) was also used as a control.



All lanes use the Antibody at 1:1K dilution for 1 hour at room temperature.

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