

**Product Name: TNFSF11 Mouse Monoclonal Antibody**  
**Catalog #: AMM81937**



## Summary

<b>Production Name</b>	TNFSF11 Mouse Monoclonal Antibody
<b>Description</b>	Mouse Monoclonal Antibody
<b>Host</b>	Mouse
<b>Application</b>	WB,IHC,ICC,FC,ELISA
<b>Reactivity</b>	Human,Mouse,Rat,Monkey,Rabbit

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	Mouse IgG1
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Purified antibody in PBS with 0.05% sodium azide
<b>Purification</b>	Affinity Purification

## Immunogen

<b>Gene Name</b>	TNFSF11
<b>Alternative Names</b>	CD254; ODF; OPGL; sOdf; OPTB2; RANKL; TNLG6B; TRANCE; hRANKL2
<b>Gene ID</b>	8600.0
<b>SwissProt ID</b>	O14788 .Purified recombinant fragment of human TNFSF11 (AA: 74-308) expressed in E. Coli.

## Application

<b>Dilution Ratio</b>	WB:1:500-1:2000,IHC:1:100-1:500,ICC:1:50-1:500,FC:1:200-1:400,ELISA:1:10000
<b>Molecular Weight</b>	35.5kDa

## Background

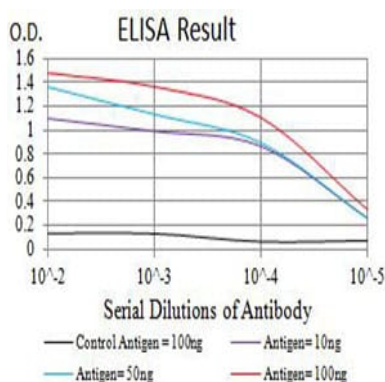
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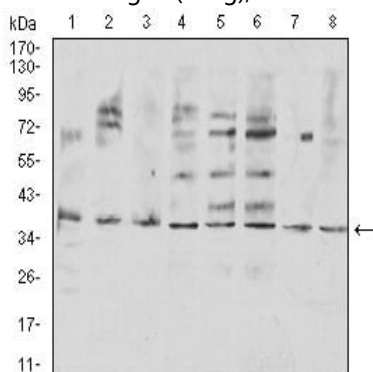
This gene encodes a member of the tumor necrosis factor (TNF) cytokine family which is a ligand for osteoprotegerin and functions as a key factor for osteoclast differentiation and activation. This protein was shown to be a dendritic cell survival factor and is involved in the regulation of T cell-dependent immune response. T cell activation was reported to induce expression of this gene and lead to an increase of osteoclastogenesis and bone loss. This protein was shown to activate antiapoptotic kinase AKT/PKB through a signaling complex involving SRC kinase and tumor necrosis factor receptor-associated factor (TRAF) 6, which indicated this protein may have a role in the regulation of cell apoptosis. Targeted disruption of the related gene in mice led to severe osteopetrosis and a lack of osteoclasts. The deficient mice exhibited defects in early differentiation of T and B lymphocytes, and failed to form lobulo-alveolar mammary structures during pregnancy. Two alternatively spliced transcript variants have been found. <br />

## Research Area

## Image Data

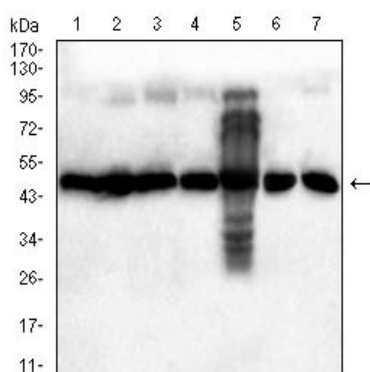


Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

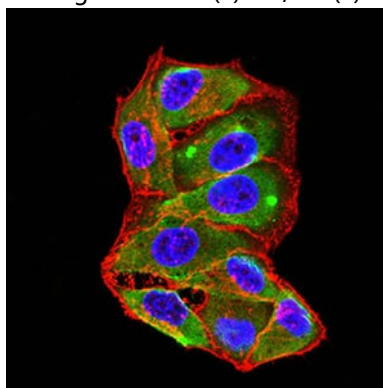


Western blot analysis using TNFSF11 mouse mAb against COS7 (1), Hela (2), U937 (3), HL-60 (4), Raji (5), Ramos (6), Jurkat (7), and SW480 (8) cell lysate.

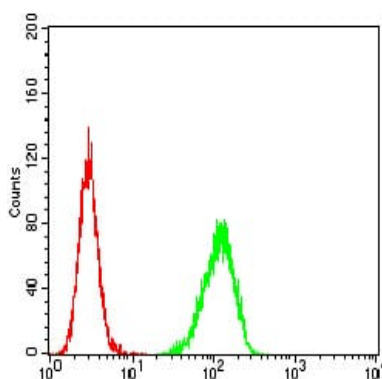
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Western blot analysis using TNFSF11 mouse mAb against PC-12(1)NIH/3T3(2)C2C12(3)C6(4)L1210(5)F9(6)COS-7(7)cell lysate.

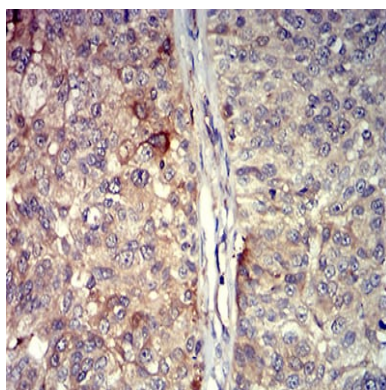


Immunofluorescence analysis of HeLa cells using TNFSF11 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)

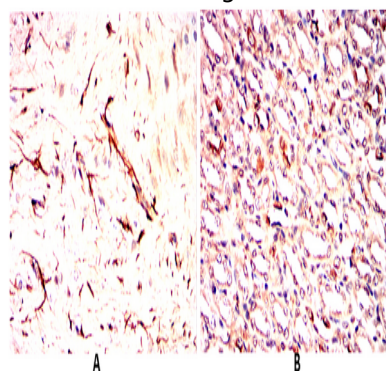


Flow cytometric analysis of HeLa cells using TNFSF11 mouse mAb (green) and negative control (red).

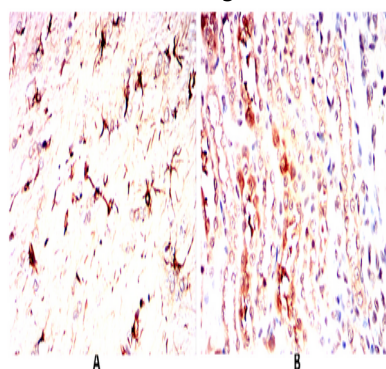
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Immunohistochemical analysis of paraffin-embedded human bladder cancer tissues using TNFSF11 mouse mAb with DAB staining.



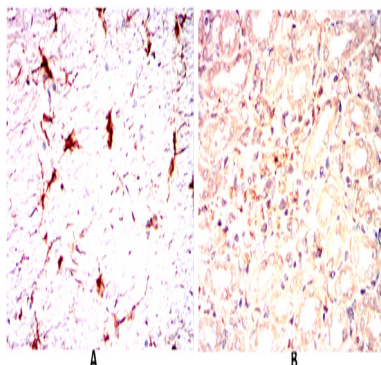
Immunohistochemical analysis of paraffin-embedded Mouse brain(A) Mouse kidney(B) using TNFSF11 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded Rat brain(A) Rat kidney(B) using TNFSF11 mouse mAb with DAB staining.

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Immunohistochemical analysis of paraffin-embedded Rabbit brain(A) Rabbit kidney(B) using TNFSF11 mouse mAb with DAB staining.

#### **Note**

For research use only.