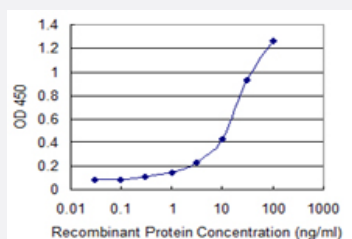


TNFSF11 monoclonal antibody (M17), clone 3F7

Catalog # H00008600-M17

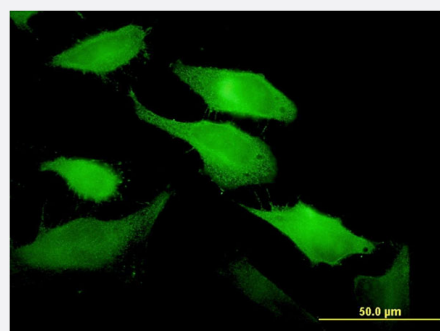
Size 100 ug

Applications



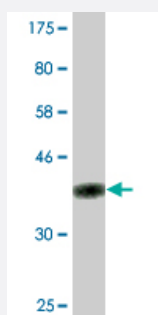
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged TNFSF11 is 0.1 ng/ml as a capture antibody.



Immunofluorescence

Immunofluorescence of monoclonal antibody to TNFSF11 on HeLa cell .
[antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (36.19 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a partial recombinant TNFSF11.

Immunogen	TNFSF11 (NP_003692.1, 222 a.a. ~ 316 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	FRHHETSGDLATEYLQLMVYVTKTSIKIPSSHTLMKGGSTKYWSGNSEFHFYSINVGGFVKLRSGE EISIEVSNPSLLDPDQDATYFGAFKVRDI
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (89)
Isotype	IgG2b Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.19 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged TNFSF11 is 0.1 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- Immunofluorescence

Immunofluorescence of monoclonal antibody to TNFSF11 on HeLa cell . [antibody concentration 10 ug/ml]

Gene Info — TNFSF11

Entrez GeneID [8600](#)

GeneBank Accession# [NM_003701](#)

Protein Accession#	NP_003692.1
Gene Name	TNFSF11
Gene Alias	CD254, ODF, OPGL, OPTB2, RANKL, TRANCE, hRANKL2, sOdf
Gene Description	tumor necrosis factor (ligand) superfamily, member 11
Omim ID	259710 602642
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq]
Other Designations	OTTHUMP00000178585 TNF-related activation-induced cytokine osteoclast differentiation factor osteoprotegerin ligand receptor activator of nuclear factor kappa B ligand tumor necrosis factor ligand superfamily, member 11

Pathway

- [Cytokine-cytokine receptor interaction](#)

Disease

- [Acute Disease](#)
- [Alveolar Bone Loss](#)
- [Alzheimer disease](#)
- [Arthritis](#)
- [Bone Diseases](#)
- [Bone Resorption](#)
- [Calcinosis](#)

- [Cardiovascular Diseases](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Edema](#)
- [Fractures](#)
- [Genetic Predisposition to Disease](#)
- [Lupus Erythematosus](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Obesity](#)
- [Osteoporosis](#)
- [Periodontitis](#)
- [Prosthesis Failure](#)
- [Scoliosis](#)
- [Spinal Fractures](#)
- [Tobacco Use Disorder](#)