

Basic Information

Product Name	Anti-TWEAKR/TNFRSF12A Antibody (Clone#GFF-20)		
Gene Name	TNFRSF12A		
Source	Rabbit		
Clonality	Monoclonal		
Isotype	IgG		
Species Reactivity	human, mouse, rat		
Tested Application	WB, IHC, IP		
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.		
Immunogen	A synthesized peptide derived from human TWEAKR		
Concentration	500 ug/ml		
Purification	Affinity-chromatography		
Observed MW	17,20 kDa		
Dilution Ratios	Western blot (WB):	1:500-2000	
	Immunohistochemistry (IHC):	1:50-200	
	ImmunoPrecipitation (IP):	1:20	

Storage

12 months from date of receipt, -20°C as supplied.

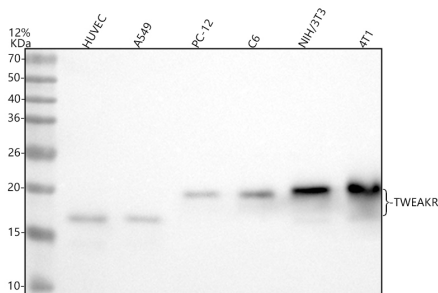
Background Information

The gene for TNFRSF12A was initially recognized as a fibroblast growth factor inducible immediate early response gene Fn14 in mouse NIH 3T3 fibroblasts. This gene is mapped to 16p13.3. Human TNFRSF12A cDNA encodes a 129 amino acid residue type I transmembrane protein with a 27 aa signal peptide, a 53 aa extracellular domain, a 21 aa transmembrane domain and a 28 aa cytoplasmic domain. Human and mouse TNFRSF12A hold 82% aa sequence identity. TNFRSF12 is the tiniest member of the TNF receptor superfamily and has only one cysteine rich region in its extracellular domain. The TNFRSF12A cytoplasmic domain holds one TRAF binding motif which binds TRAFs 1, 2, and 3. TNFRSF12A binds its ligand TWEAK/TNFSF12A with high affinity to initiate a signal transduction cascade which subject to the cell type, causes different cellular responses such as cell death, cell proliferation, and angiogenesis.

Reference

Anti-TWEAKR/TNFRSF12A Antibody (Clone#GFF-20)被引用在2文献中。

Selected Validation Data



Western blot analysis of anti-TWEAKR/TNFRSF12A antibody (BM4635). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human HUVEC whole cell lysates,

Lane 2: human A549 whole cell lysates,

Lane 3: rat PC-12 whole cell lysates,

Lane 4: rat C6 whole cell lysates,

Lane 5: mouse NIH/3T3 whole cell lysates,

Lane 6: mouse 4T1 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-TWEAKR/TNFRSF12A antigen affinity purified monoclonal antibody (BM4635) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for TWEAKR/TNFRSF12A at approximately 17.2 kDa. The expected band size for TWEAKR/TNFRSF12A is at 17.2 kDa.