

IFITM5 Rabbit pAb

Catalog # AP97229

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	A6NNB3
Other Accession	A6NNB3
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	14378
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human IFITM5
Epitope Specificity	1-100/132
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the CD225/Dispanin family.
DISEASE	Osteogenesis imperfecta 5 (OI5) [MIM:610967]: An autosomal dominant form of osteogenesis imperfecta, a connective tissue disorder characterized by low bone mass, bone fragility and susceptibility to fractures after minimal trauma. Disease severity ranges from very mild forms without fractures to intrauterine fractures and perinatal lethality. Extraskelatal manifestations, which affect a variable number of patients, are dentinogenesis imperfecta, hearing loss, and blue sclerae. OI5 patients manifest moderate to severe bone fragility, calcification of the forearm interosseous membrane, radial head dislocation, a subphyseal metaphyseal radiodense line, and hyperplastic callus formation. Note=The disease is caused by mutations affecting the gene represented in this entry.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	IFITM5 is a membrane protein thought to play a role in bone mineralization. This gene is located on chromosome 11 in a cluster of related genes which are induced by interferon, however, this gene has not been shown to be interferon inducible. A similar gene, located in a gene cluster on mouse chromosome 7, is a member of the interferon-inducible fragilis gene family. The mouse gene encodes a transmembrane protein described as participating in germ cell competence. A mutation in the 5' UTR of this gene has been associated with osteogenesis imperfecta type V (PMID: 22863190, 22863195).

Additional Information

Gene ID	387733
Other Names	BRIL; DSPA1; Hrmp1; OI5; fragilis4; 1110003J06Rik; Hrtm1; IFM5_HUMAN; IFITM5; Bone-restricted interferon-induced transmembrane protein-like protein (BRIL); Dispanin subfamily A member 1 (DSPA1); IFM5_MOUSE;

Fragilis family member 4; interferon induced transmembrane protein 5;
dispanin subfamily A member 1

Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	IFITM5
Function	Required for normal bone mineralization.
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Detected in osteoblasts and fibroblasts (at protein level) (PubMed:24519609). Detected in bone (PubMed:24058703)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.