FBXW4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	FBXW4, Polyclonal Antibody
Full Product Name	FBXW4, CT (FBXW4, FBW4, SHFM3, F-box/WD repeat-containing protein 4, Dactylin, F-box and WD-40 domain-containing protein 4) (MaxLight 550)
Product Gene Name	anti-FBXW4 antibody
Product Synonym Names	FBXW4; FBW4; SHFM3; F-box/WD repeat-containing protein 4; Dactylin; F-box and WD-40 domain-containing protein 4
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	46,337 Da
OMIM	phenotype 608071
3D Structure	ModBase 3D Structure for P57775
Immunogen	FBXW4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 341-370 amino acids from the C-terminal region of human FBXW4.
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-FBXW4 antibody	Antibodies; WD Repeat Proteins
Applications Tested/Suitable for anti-FBXW4 antibody	Western Blot (WB), FLISA
Application Notes for anti-FBXW4 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-FBXW4 antibody	This gene is a member of the F-box/WD-40 gene family, which recruit specific target proteins through their WD-40 protein-protein binding domains for ubiquitin mediated degradation. In mouse, a highly similar protein is thought to be responsible for maintaining the apical ectodermal ridge of developing limb buds; disruption of the mouse gene results in the absence of central digits, underdeveloped or absent metacarpal/metatarsal bones and syndactyly. This phenotype is remarkably similar to split hand-split foot malformation in humans, a clinically heterogeneous condition with a variety of modes of transmission. An autosomal recessive form has been mapped to the chromosomal region where this gene is located, and complex rearrangements involving duplications of this gene and others have been associated with the condition. A pseudogene of this locus has been mapped to one of the introns of the BCR gene on chromosome 22.

Product References and Citations for anti-FBXW4 antibody	Everman, D.B., et al. Am. J. Med. Genet. A 140(13):1375-1383(2006). Kano, H., et al. Hum. Genet. 118 (3-4), 477-483 (2005): Kang, Y.S., et al. Mol. Cells 17(3):397-403(2004). Deloukas, P., et al. Nature 429(6990):375-381(2004). Roscioli, T., et al. Am. J. Med. Genet. A 124A (2), 136-141 (2004).
Other Notes	Small volumes of anti-FBXW4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for FBXW4 purchase	MBS6298545 is an antibody targeting FBXW4. Also known as FBXW4, CT (FBXW4, FBW4, SHFM3, F-box/WD repeat-containing protein 4, Dactylin, F-box and WD-40 domain-containing protein 4) (MaxLight 550). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FBXW4. It may not necessarily be applicable to this product.

NCBI GI #	11545739
NCBI GeneID	6468
NCBI Accession #	NP_071322.1
UniProt Primary Accession #	P57775
UniProt Secondary Accession #	Q5SVS1; Q96IM6
UniProt Related Accession #	P57775
GenBank Nucleotide #	NM_022039.3
NCBI Official Full Name	F-box/WD repeat-containing protein 4
NCBI Official Synonym Full Names	F-box and WD repeat domain containing 4
NCBI Official Symbol	FBXW4
NCBI Official Synonym Symbols	DAC; FBW4; FBWD4; SHFM3; SHSF3
UniProt Protein Name	F-box/WD repeat-containing protein 4
UniProt Synonym Protein Names	Dactylin; F-box and WD-40 domain-containing protein 4
Protein Family	F-box/WD repeat-containing protein
UniProt Gene Name	FBXW4
UniProt Synonym Gene Names	FBW4; SHFM3
UniProt Entry Name	FBXW4_HUMAN
NCBI Protein Information	F-box/WD repeat-containing protein 4; dactylin; F-box/WD repeat protein 4; F-box and WD-40 domain protein 4; F-box and WD-40 domain-containing protein 4

UniProt Comments for FBXW4	FBXW4: Probably recognizes and binds to some phosphorylated proteins and promotes their ubiquitination and degradation. Likely to be involved in key signaling pathways crucial for normal limb development. May participate in Wnt signaling. Defects in FBXW4 are a cause of split-hand/foot malformation type 3 (SHFM3). SHFM3 is an autosomal dominant disorder characterized by hypoplasia/aplasia of the central digits with fusion of the remaining digits. Protein type: Cell cycle regulation; Cell development/differentiation Chromosomal Location of Human Ortholog: 10q24 Cellular Component: ubiquitin ligase complex Biological Process: ubiquitin-dependent protein catabolic process; Wnt receptor signaling pathway; cartilage development; positive regulation of mesenchymal cell proliferation; embryonic digit morphogenesis; embryonic limb morphogenesis Disease: Split-hand/foot Malformation 3
Research Articles on FBXW4	**1.** biochemical characterization of the novel F-box and WD40 containing protein, FBXW4
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