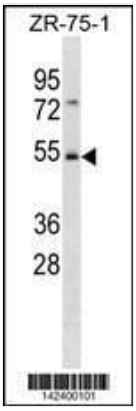
FBXW4 Antibody – Rabbit Polyclonal

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)
Product Gene Name	anti-FBXW4 antibody
Product Synonym Names	Anti -FBXW4, CT (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, 0.09% sodium azide.
Purity/Purification	Affinity Purified Purified by Protein A affinity chromatography.
Specificity	Human
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	46,337 Da
Chromosome Location	Chromosome: 10; NC_000010.10 (103370421..103455345, complement). Location: 10q24
OMIM	246560
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.
Product Categories/Family for anti-FBXW4 antibody	Antibodies; Abs to WD Repeat Proteins
Applications Tested/Suitable for anti-FBXW4 antibody	ELISA (EL/EIA), Western Blot (WB)
Application Notes for anti-FBXW4 antibody	Suitable for use in Western Blot, ELISA Dilution: ELISA: 1:1,000 Western Blot: 1:100-500
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.

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	MBS6003655 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). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-FBXW4 antibody
FBXW4 Antibody (C-term) western blot analysis in ZR-75-1 cell line lysates (35ug/lane).This demonstrates the FBXW4 antibody detected the FBXW4 protein (arrow).

ADDITIONAL DETAILS

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

NCBI GI #	39644763
NCBI GeneID	6468
NCBI Accession #	AAH07380.2
UniProt Primary Accession #	P57775
UniProt Secondary Accession #	Q5SVS1; Q96IM6
UniProt Related Accession #	P57775
NCBI Official Full Name	FBXW4 protein
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.** results indicate that genomic rearrangement of SHFM3 is rare among non-syndromic SHFM patients and emphasize the importance of screening for genomic rearrangements even in sporadic cases of SHFM
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