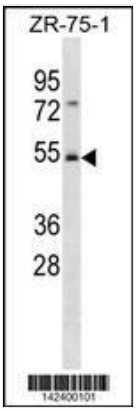
# FBXW4 Antibody – Rabbit Polyclonal

## 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) (APC) |
| **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 Allophycocyanin (APC). |
| **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: APC 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** | APC |
| **Note** | Preservative Free |
| **Special Handling** | Light sensitive |
| **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<br>FLISA: 1:1,000<br>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** | MBS6298539 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) (APC). 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 #** | 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.<br><br>Protein type: Cell cycle regulation; Cell development/differentiation<br><br>Chromosomal Location of Human Ortholog: 10q24<br><br>Cellular Component: ubiquitin ligase complex<br><br>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<br><br>Disease: Split-hand/foot Malformation 3 |
| **Research Articles on FBXW4** | **1.** biochemical characterization of the novel F-box and WD40 containing protein, FBXW4 |
| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |
| **Disclaimer** | While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice.<br><br>It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information. |
| **Product Note** | Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details. |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures.

**MyBioSource** | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/fbxw4/6298539