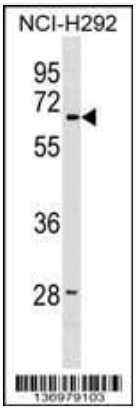
LMBR1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	LMBR1, Polyclonal Antibody
Full Product Name	LMBR1, ID (LMBR1, C7orf2, DIF14, Limb region 1 protein homolog, Differentiation-related gene 14 protein) (FITC)
Product Gene Name	anti-LMBR1 antibody
Product Synonym Names	LMBR1; C7orf2; DIF14; Limb region 1 protein homolog; Differentiation-related gene 14 protein
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 Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	55,098 Da
Chromosome Location	Chromosome: 7; NC_000007.13 (156470537..156685902, complement). Location: 7q36
OMIM	174500
3D Structure	ModBase 3D Structure for Q8WVP7
Immunogen	LMBR1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 261-290 amino acids from the Central region of human LMBR1.
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-LMBR1 antibody	Antibodies; Receptors
Applications Tested/Suitable for anti-LMBR1 antibody	Western Blot (WB), FLISA
Application Notes for anti-LMBR1 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-LMBR1 antibody	This gene encodes a member of the LMBR1-like membrane protein family. Another member of this protein family has been shown to be a lipocalin transmembrane receptor. A highly conserved, cis-acting regulatory module for the sonic hedgehog gene is located within an intron of this gene. Consequently, disruption of this genic region can alter sonic hedgehog expression and affect limb patterning, but it is not known if this gene functions directly in limb development. Mutations and chromosomal deletions and rearrangements in this genic region are associated with acheiropody and preaxial polydactyly, which likely result from altered sonic hedgehog expression.

Product References and Citations for anti-LMBR1 antibody	Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010): Farooq, M., et al. Eur. J. Hum. Genet. 18(6):733-736(2010). Rutsch, F., et al. Nat. Genet. 41(2):234-239(2009). He, F., et al. PLoS ONE 3 (8), E2948 (2008): Wang, Z.Q., et al. Biochem. Biophys. Res. Commun. 355(2):312-317(2007).
Other Notes	Small volumes of anti-LMBR1 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 LMBR1 purchase	MBS6316540 is an antibody targeting LMBR1. Also known as LMBR1, ID (LMBR1, C7orf2, DIF14, Limb region 1 protein homolog, Differentiation-related gene 14 protein) (FITC). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-LMBR1 antibody
LMBR1 Antibody (Center) western blot analysis in NCI-H292 cell line lysates (35ug/lane).This demonstrates the LMBR1 antibody detected the LMBR1 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LMBR1. It may not necessarily be applicable to this product.

NCBI GI #	21362112
NCBI GeneID	64327
NCBI Accession #	NP_071903.2
UniProt Primary Accession #	Q8WVP7
UniProt Secondary Accession #	Q8N3E3; Q96QZ5; Q9H5N0; Q9HAG9; Q9UDN5; Q9Y6U2; A4D242
UniProt Related Accession #	Q8WVP7
GenBank Nucleotide #	NM_022458.3
NCBI Official Full Name	limb region 1 protein homolog
NCBI Official Synonym Full Names	limb development membrane protein 1
NCBI Official Symbol	LMBR1
NCBI Official Synonym Symbols	TPT; ZRS; ACHP; PPD2; DIF14; C7orf2
UniProt Protein Name	Limb region 1 protein homolog
UniProt Synonym Protein Names	Differentiation-related gene 14 protein
Protein Family	Limb region 1 protein
UniProt Gene Name	LMBR1
UniProt Synonym Gene Names	C7orf2; DIF14
UniProt Entry Name	LMBR1_HUMAN
NCBI Protein Information	limb region 1 protein homolog; limb region 1 homolog; differentiation-related gene 14 protein

UniProt Comments for LMBR1	Function: Putative membrane receptor. Subcellular location: Membrane; Multi-pass membrane protein By similarity. Tissue specificity: Widely expressed with strongest expression in heart and pancreas. Ref.8 Involvement in disease: Preaxial polydactyly 2 (PPD2) [MIM:174500]: Polydactyly consists of duplication of the distal phalanx. The thumb in PPD2 is usually opposable and possesses a normal metacarpal.Note: The disease is caused by mutations affecting the gene represented in this entry. Disease-causing mutations are located in intron 5 of LMBR1. The mutations do not alter normal LMBR1 expression and function, but disrupt a long-range, cis-regulatory element of SHH expression contained in LMBR1 intron 5 (Ref.10). Ref.10Acheiropody (ACHP) [MIM:200500]: Very rare condition characterized by bilateral congenital amputations of the hands and feet. The specific malformative phenotype consists of a complete amputation of the distal epiphysis of the humerus, amputation of the tibial diaphysis and aplasia of the radius, ulna, fibula and of all the bones of the hands and feet.Note: The disease is caused by mutations affecting the gene represented in this entry.Syndactyly 4 (SDTY4) [MIM:186200]: A form of syndactyly, a congenital anomaly of the hand or foot marked by persistence of the webbing between adjacent digits that are more or less completely attached. SDTY4 is characterized by complete bilateral syndactyly (involving all digits 1 to 5). A frequent association with polydactyly (with six metacarpals and six digits) has been reported. Feet are affected occasionally.Note: The disease is caused by mutations affecting the gene represented in this entry. Disease-causing mutations are located in intron 5 of LMBR1. The mutations do not alter normal LMBR1 expression and function, but disrupt a long-range, cis-regulatory element of SHH expression contained in LMBR1 intron 5. Ref.11 Sequence similarities: Belongs to the LIMR family. Sequence caution: The sequence AAD43188.1 differs from that shown. Reason: Erroneous initiation. The sequence AAK31345.1 differs from that shown. Reason: Erroneous initiation. The sequence BAB15595.1 differs from that shown. Reason: Erroneous initiation.
Research Articles on LMBR1	**1.** report of a new point mutation within the ZRS in a family with digit malformations including triphalangeal thumb, pre-axial polydactyly and post-axial polydactyly; heterozygous C>A mutation at position 287 of the ZRS enhancer was detected in all affected subjects and is absent from four unaffected family members
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