

Rabbit PLOD2 Polyclonal Antibody | anti-PLOD2 antibody

PLOD2 antibody - middle region

CATALOG # AAA199170	HOST Rabbit	REACTIVITY Cow, Dog, Horse, Human, Mouse, Pig, Rabbit, Rat	APPLICATIONS Western Blot, Immunohistochemistry
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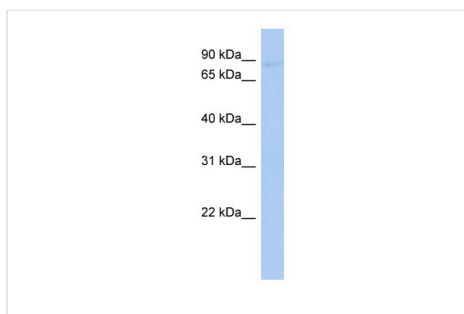
PRODUCT SYNONYMS

PLOD2; Polyclonal Antibody; PLOD2 antibody - middle region; anti-PLOD2 antibody

PRODUCT SPECIFICATIONS

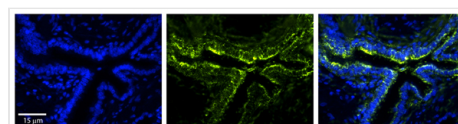
Host	Rabbit
Reactivity	Cow, Dog, Horse, Human, Mouse, Pig, Rabbit, Rat
Clonality	Polyclonal
Purity/Purification	Affinity Purified
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Sequence	Synthetic peptide with the following region: IK GKTLRSEMNE RNYFVRDKLD PDMALCRNAR EMTLQREKDS PTPETFQM
Sequence Length	758
Applicable Applications for anti-PLOD2 antibody	WB (Western Blot), IHC (Immunohistochemistry)
Homology	Cow: 100%; Dog: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Pig: 100%; Rabbit: 100%; Rat: 100%
Immunogen	The immunogen is a synthetic peptide directed towards the middle region of human PLOD2
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



WB (Western Blot)

WB Suggested Anti-PLOD2 Antibody Titration: 0.2-1 ug/ml
ELISA Titer: 1:312500
Positive Control: DU145 cell lysate
PLOD2 is strongly supported by BioGPS gene expression data to be expressed in Human DU145 cells



IHC (Immunohistochemistry)

Rabbit Anti-PLOD2 Antibody
Formalin Fixed Paraffin Embedded Tissue: Human Bronchial Epithelial Tissue
Observed Staining: Cytoplasmic
Primary Antibody Concentration: 1:100
Secondary Antibody: Donkey anti-Rabbit-Cy3
Secondary Antibody Concentration: 1:200
Magnification: 20X
Exposure Time: 0.5 - 2.0 sec

ADDITIONAL INFORMATION

Related Product Information for anti-PLOD2 antibody	This is a rabbit polyclonal antibody against PLOD2. It was validated on Western Blot using a cell lysate as a positive control. Target Description: PLOD2 forms hydroxylysine residues in -Xaa-Lys-Gly- sequences in collagens. These hydroxylysines serve as sites of attachment for carbohydrate units and are essential for the stability of the intermolecular collagen cross-links. The protein encoded by this gene is a membrane-bound homodimeric enzyme that is localized to the cisternae of the rough endoplasmic reticulum. The enzyme (cofactors iron and ascorbate) catalyzes the hydroxylation of lysyl residues in collagen-like peptides. The resultant hydroxylysyl groups are attachment sites for carbohydrates in collagen and thus are critical for the stability of intermolecular crosslinks. Some patients with Ehlers-Danlos syndrome type VIB have deficiencies in lysyl hydroxylase activity. Mutations in the coding region of this gene are associated with Bruck syndrome. Alternative splicing results in multiple transcript variants encoding different isoforms.
Product Categories/Family for anti-PLOD2 antibody	Polyclonal; Signal Proteins; Disease Related; Hypoxia

NCBI AND UNIPROT INFORMATION

NCBI GI #	62906878
NCBI GeneID	5352
NCBI Accession #	NP_891988
NCBI GenBank Nucleotide #	NM_182943
UniProt Accession #	O00469
Molecular Weight	84kDa
NCBI Official Full Name	Procollagen-lysine,2-oxoglutarate 5-dioxygenase 2
NCBI Official Synonym Full Names	procollagen-lysine,2-oxoglutarate 5-dioxygenase 2
NCBI Official Symbol	PLOD2
NCBI Official Synonym Symbols	LH2; TLH; BRKS2
NCBI Protein Information	procollagen-lysine,2-oxoglutarate 5-dioxygenase 2
UniProt Protein Name	Procollagen-lysine,2-oxoglutarate 5-dioxygenase 2
UniProt Gene Name	PLOD2
UniProt Synonym Gene Names	LH2
UniProt Entry Name	PLOD2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.