

Anti-LVRN Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse (predicted:Rat,Dog)
Molecular Weight:	Theoretical: 113 kDa. Actual: 120 kDa.
Purification:	Protein A purified

Applications

Sample:	Lane 1: Mouse Placenta tissue lysates Lane 2: Human THP-1 cell lysates Lane 3: Human JAR cell lysates
Verified Activity:	Primary: Anti-Laeverin/Aminopeptidase Q (TMAB-08453) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 113 kDa Observed band size: 120 kDa
Application:	WB
Recommended	WB: 1:500-2000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human LVRN
Antigen Species:	Human
Gene ID:	206338
Uniprot ID:	Q6Q4G3

Research Background

Laeverin is a 990 amino acid member of the peptidase M1 family and contains an HEXXH₁₈E gluzincin motif and an H(G)AMEN motif. Expressed specifically in placenta on embryo-derived extravillous trophoblasts (EVTs), laeверin localizes to the cell membrane and is a single-pass type II membrane protein. Laeверin binds zinc and functions as a bestatin-sensitive leucine aminopeptidase with a potential role in EVT function. This suggests that laeверin may be involved in human placentation, during which EVT_s invade maternal decidua and spiral areteries. More specifically, laeверin may function by regulating the activities of key peptides at the embryo-maternal interface. Laeверin has a broad substrate specificity but exhibits a preference for Leu-4-methylcoumaryl-7-amide. In addition, laeверin can form a homodimer with intermolecular disulfide bond(s).

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