

EVL Antibody

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H	Endogenous	52	Rabbit	#Q9UI08	51466

Product Usage Information**Application**

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

EVL Antibody recognizes endogenous levels of total EVL protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser362 of human EVL protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Ena/VASP-like (EVL) protein is a member of the Ena/VASP family and is involved in actin-associated cytoskeleton remodeling and cell polarity activities including axon guidance and lamellipodia formation in migrating cells (1,2,3). The EVL protein sequence contains an N-terminal EVH1 domain, a Pro-rich SH3 binding domain, and a C-terminal EVH2 domain. EVL domain interactions with G- and F-actin mediates actin nucleation and polymerization (4). Research studies have shown that EVL also regulates DNA repair by direct interaction with RAD51 (5). EVL may function in the DSB repair pathway through the EVH2 domain, which possesses DNA-binding and RAD51 binding activity, thereby coordinating homologous DNA recombination (6,7). Research studies have shown EVL expression is up-regulated in human breast cancer associated with clinical stages and may be implicated in invasion and/or metastasis of human breast cancer (8).

Background References

1. Michael, M. et al. (2010) *Curr Biol* 20, 783-91.
2. Goh, K.L. et al. (2002) *Curr Biol* 12, 565-9.
3. Lebrand, C. et al. (2004) *Neuron* 42, 37-49.
4. Laurent, V. et al. (1999) *J Cell Biol* 144, 1245-58.
5. Takaku, M. et al. (2009) *J Biol Chem* 284, 14326-36.
6. Takaku, M. et al. (2011) *J Biochem* 149, 721-9.
7. Takaku, M. et al. (2009) *FEBS J* 276, 5841-8.
8. Hu, L.D. et al. (2008) *Oncol Rep* 19, 1015-20.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human

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