

EVL Antibody

✓ 100 µl
(10 western blots)

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New 05/13

For Research Use Only. Not For Use In Diagnostic Procedures.

Applications
W, IP
Endogenous

Species Cross-Reactivity*
H

Molecular Wt.
52 kDa

Source
Rabbit**

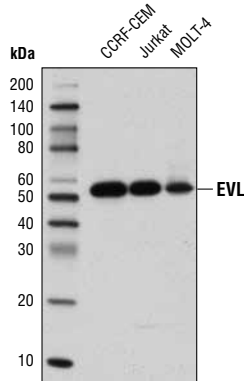
Background: Ena/VASP-like (EVL) protein is a member of the Ena/VASP family and is involved in actin-associated cytoskeleton remodeling and cell polarity activities including axon guidance and lamellipodia formation in migrating cells (1,2,3). The EVL protein sequence contains an N-terminal EVH1 domain, 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).

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 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.



Western blot analysis of extracts from CCRF-CEM, Jurkat, and MOLT-4 cell lines using EVL Antibody.

Entrez-Gene ID #51466
Swiss-Prot Acc. #Q9UI08

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.

***Species cross-reactivity is determined by western blot.**

****Anti-rabbit secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:

Western blotting 1:1000
Immunoprecipitation 1:50

For product specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended complementary products.

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

Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide
Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine
Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.