

FLI1 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	H M R Mk	Endogenous	52	Rabbit	#Q01543	2313

Product Usage Information**Application**

Western Blotting

Dilution

1:1000

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

FLI1 Antibody recognizes endogenous levels of total FLI1 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val64 of human FLI1 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Friend leukemia integration 1 (FLI1) transcription factor is an ETS domain-containing transcription factor that plays an important and highly conserved role in vertebrate development, particularly hematopoiesis, where it functions to activate transcription of genes that promote erythroblast proliferation (1-4). In mice, the *Fli1* locus is a common retroviral insertion site for the Friend murine leukemia virus (F-MuLV), such that a majority of F-MuLV-induced erythroleukemias are associated with aberrant Fli1 expression (5). Notably in humans, aberrant FLI1 expression has also been linked to poor prognosis in acute myeloid leukemia (6). Also in humans, a t(11;22)(q24;q12) chromosomal translocation has been described that generates a chimeric protein (EWS/FLI1) comprised of the amino-terminal transactivation domain of Ewing's sarcoma breakpoint region 1 (EWS) and the carboxy-terminal ETS domain of FLI1 (7). The EWS/FLI1 fusion protein functions as a transcriptional activator that is reportedly responsible for >85% of the known cases of pediatric Ewing's sarcoma, an aggressive bone and soft tissue tumor (8,9).

Background References

1. Spyropoulos, D.D. et al. (2000) *Mol Cell Biol* 20, 5643-52.
2. Pimanda, J.E. et al. (2007) *Proc Natl Acad Sci U S A* 104, 17692-7.
3. Jagadeeswaran, P. et al. (2010) *Blood Cells Mol Dis* 44, 175-80.
4. Tijssen, M.R. et al. (2011) *Dev Cell* 20, 597-609.
5. Ben-David, Y. et al. (1990) *Proc Natl Acad Sci U S A* 87, 1332-6.
6. Kornblau, S.M. et al. (2011) *Blood* 118, 5604-12.
7. May, W.A. et al. (1993) *Proc Natl Acad Sci U S A* 90, 5752-6.
8. Braun, B.S. et al. (1995) *Mol Cell Biol* 15, 4623-30.
9. Riggi, N. and Stamenkovic, I. (2007) *Cancer Lett* 254, 1-10.

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

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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