

Gene Section

Short Communication

FBP17 (formin binding protein 17)

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Published in Atlas Database: March 2001

Online updated version : <http://AtlasGeneticsOncology.org/Genes/FBP17ID353.html>

DOI: 10.4267/2042/37727

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Identity

Other names: FBP17 (Formin Binding Protein 17); KIAA0554

HGNC (Hugo): FNBP1

Location: 9q34

Local order: centromeric of ABL

DNA/RNA

Description

At least 2042 bp.

Transcription

Open reading frame of 679 amino acids.

Protein

Description

679 amino acids, 75 kDa.

Expression

Strong expression in epithelial cells from the respiratory system, gastrointestinal tract, urinary, and reproductive system.

Localisation

Exclusively cytoplasmatic.

Function

Interacts with Sorting nexin 2 (SNX2) in vivo and in vitro.

Mutations

Germinal

Unknown.

Somatic

Unknown.

Implicated in

t(9;11)(q34;q23) acute non lymphocytic leukemia --> FBP17 - MLL

Prognosis

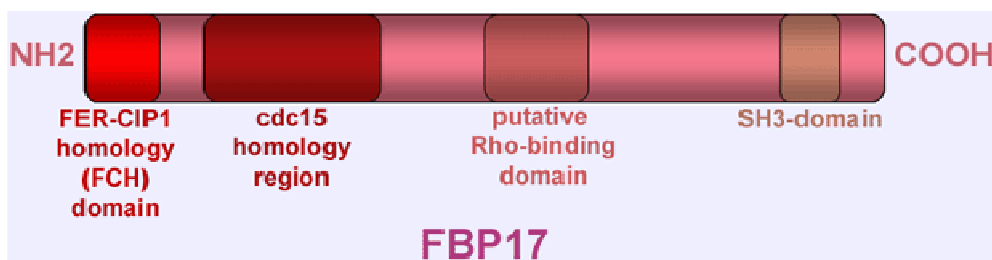
Poor.

Hybrid/Mutated gene

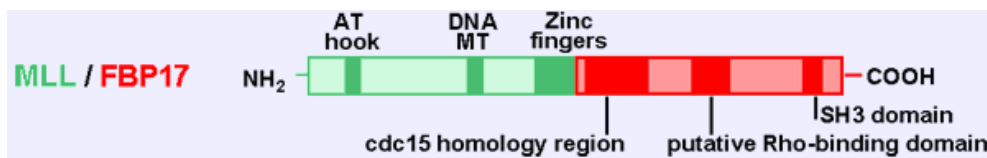
5' MLL - 3' FBP17

Abnormal protein

MLL/FBP17



FCH-domain: amino terminus; cdc15 homology region: aa 96-290; Rho-binding domain: aa 475-537; SH3-domain: aa 612-669



References

Fuchs U, Rehkamp G, Haas OA, Slany R, König M, Bojesen S, Bohle RM, Damm-Welk C, Ludwig WD, Harbott J, Borkhardt A. The human formin-binding protein 17 (FBP17) interacts with sorting nexin, SNX2, and is an MLL-fusion partner in acute

myelogeneous leukemia. Proc Natl Acad Sci U S A. 2001 Jul 17;98(15):8756-61

This article should be referenced as such:

Fuchs U, Borkhardt A. FBP17 (formin binding protein 17). Atlas Genet Cytogenet Oncol Haematol. 2001; 5(2):106-107.
