

PREP-1 (15-436): sc-4248 WB

BACKGROUND

Human pre-B cell acute leukemias are frequently associated with a t(1;19)(q23;p13.3) chromosomal rearrangement which creates a chimeric gene encoding a fusion between the E2A and Pbx 1 gene products. Fusion cDNAs have been shown to encode an 85 kDa protein comprised of two-thirds of the E2A transactivation domain, fused to a homeobox protein termed Pbx 1 or Pbx 1. Two highly related Pbx proteins, designated Pbx 2 and Pbx 3, have also been identified. Pbx 2 and Pbx 3 share a 92% and 94% identity with Pbx 1, respectively, over a 266 amino acid region flanking their homeobox domains, while all three proteins are quite divergent at their amino and carboxy termini. Pbx-regulating protein, PREP-1, is a 64 kDa DNA-binding protein that forms stable complexes with Pbx proteins which synergize with AP-1 binding factors to augment transcription of the urokinase gene. Also referred to as UEF3, PRP-1 or p64, PREP-1 appears to be a general DNA-binding factor involved in modulating the transcriptional activity of AP-1 containing promoters.

REFERENCES

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SOURCE

PREP-1 (15-436) is expressed in *E. coli* as a 75 kDa tagged fusion protein corresponding to amino acids 15-436 mapping at the amino terminus of PREP-1 (also designated PRP-1) of human origin.

PRODUCT

PREP-1 (15-436) is purified from bacterial lysates (>98%) by glutathione agarose affinity chromatography; supplied as 10 µg in 0.1 ml SDS-PAGE loading buffer.

APPLICATIONS

PREP-1 (15-436) is suitable as a Western blotting control for sc-6245.

STORAGE

Store at -20° C; stable for one year from the date of shipment.

RESEARCH USE

For research use only, not for use in diagnostic procedures.