



GTBP (1220-1360): sc-4322 WB

BACKGROUND

The finding that mutations in DNA mismatch repair genes are associated with hereditary nonpolyposis colorectal cancer (HNPCC) has resulted in considerable interest in the understanding of the mechanism of DNA mismatch repair. Initially, inherited mutations in the MSH2 and MLH1 homologs of the bacterial DNA mismatch repair genes MutS and MutL were demonstrated at high frequency in HNPCC and were shown to be associated with microsatellite instability. A member of the mismatch repair family, GTBP (also designated MSH6), is a 160 kDa MSH2-related protein that binds to DNA containing G/T mismatches. Findings suggest that the mismatch-binding factor in human cells is composed of a heterodimer of GTBP and MSH2.

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CHROMOSOMAL LOCATION

Genetic locus: MSH6 (human) mapping to 2p16; Msh6 (mouse) mapping to 17 E4.

SOURCE

GTBP (1220-1360) is expressed in *E. coli* as a 43 kDa tagged fusion protein corresponding to amino acids 1220-1360 of G/T binding protein (GTBP) of human origin.

PRODUCT

GTBP (1220-1360) is purified from bacterial lysates (>98%) by column chromatography; supplied as 10 µg in 0.1 ml SDS-PAGE loading buffer.

APPLICATIONS

GTBP (1220-1360) is suitable as a Western blotting control for sc-1242 and sc-10798.

STORAGE

Store at -20° C. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

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