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## **BEND7 Antibody Blocking Peptide**

Catalog Number: bs-9775P

Activity: Not tested

Purification: HPLC

Storage: Shipped at 4°C. Stored at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: BEND7 is a 519 amino acid protein that contains a BEN domain. BEN domain mediates protein–DNA and protein–protein interactions during chromatin organization and transcription. BEN domain may play a role in organization of viral DNA during replication or transcription. BEND7 exists as three independently spliced isoforms and the gene that encodes BEND7 maps to chromosome 10p13. Chromosome 10 contains over 800 genes and 135 million nucleotides, making up nearly 4.5% of the human genome. PTEN is an important tumor suppressor gene located on chromosome 10 and, when defective, causes a genetic predisposition to cancer development known as Cowden syndrome. The chromosome 10 encoded gene ERCC6 is important for DNA repair and is linked to Cockayne syndrome which is characterized by extreme photosensitivity and premature aging. Tetrahydrobiopterin deficiency and a number of syndromes involving defective skull and facial bone fusion are also linked to chromosome 10.