

ZBRK1 Antibody

ZBRK1: Zinc finger protein 350, ZNF350

CATALOG NO.: 4817

BACKGROUND:

ZBRK1 is a member of the Kruppel-associated box-zinc finger protein (KRAB-ZFP) protein family of transcriptional repressors (1,2). ZBRK1 has been shown to not only be up-regulated in senescent fibroblasts but also interacts with BRCA1, a transcriptional regulator with tumor suppressor activity (2). ZBRK1 binds to a specific sequence within the GADD45 gene, supporting the assembly of a nuclear complex containing BRCA1 and repressing its transcription (2). Recent experiments demonstrate that ZBRK1 can homo-oligomerize in vitro and in vivo through a C-terminal transcriptional repression domain (CTRD), and this oligomerization facilitates the ZBRK1-directed transcriptional repression through ZBRK1 response elements. These results suggest that higher order ZBRK1 oligomers may assemble through both protein-DNA and CTRD-dependent protein-protein interactions (3).

SOURCE:

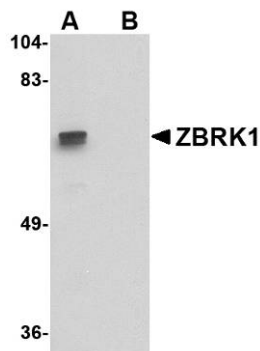
Rabbit polyclonal ZBRK1 antibody was raised against a 20 amino acid peptide near the carboxy terminus of the human ZBRK1 (GenBank accession no. NP_067645).

APPLICATION:

ZBRK1 antibody can be used for detection of ZBRK1 by Western blot at 1 – 2 µg/ml. (Optimal dilution should be determined by user.) A-20 cell lysate can be used as positive control. ZBRK1 antibody is human, mouse and rat reactive. **This product is for research use only.**

STORAGE:

ZBRK1 antibody is supplied as immunoaffinity purified IgG in PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.



Western blot analysis of ZBRK1 in A-20 lysate with ZBRK1 antibody at 1 µg/ml in (A) the absence and (B) the presence of blocking peptide.

RELATED PRODUCTS:

Blocking peptide, Catalog No. **4817P**.
A-20 Cell Lysate, Catalog No. **1288**.
BRCA1 Antibody, Catalog No. **XW-7058**.
GADD45G Antibody, Catalog No. **XW-7211**.

REFERENCES:

1. Zheng L, Pan H, Li S, et al. Sequence-specific transcription corepressor function for BRCA1 through a novel Zinc finger protein, ZBRK1. *Mol. Cell* 2000; 6:757-68.
2. Collins T, Stone JR, and Williams AJ. All in the family: the BTB/POZ, KRAB, and SCAN domains. *Mol. Cell. Biol.* 2001; 21:3609-15.
3. Tan W, Kim S, and Boyer TG. Tetrameric oligomerization mediates transcriptional repression by the BRCA1-dependent Kruppel-associated Box-Zinc finger protein ZBRK1. *J. Biol. Chem.* 2004; 279:55153-60. (08-01D)