

# XAB1 (h): 293T Lysate: sc-171461

## BACKGROUND

XAB1 (XPA binding protein 1), also known as MBDIN, NTPBP, ATPBD1A or HUSSY-23, is a 374 amino acid cytoplasmic protein that is involved in protein synthesis events. Expressed ubiquitously with highest expression in testis, XAB1 binds to the RNA polymerase II (Pol II)-associated proteins RPAP1-3 and to XPA (a protein involved in DNA repair mechanisms), thereby forming an interface with Pol II. Via this interaction, XAB1 is thought to mediate the involvement of Pol II in both protein complex formation and protein chaperone/scaffolding activities. In addition, XAB1 interacts with components of the integrator and molecular chaperone complexes, further implicating XAB1 in protein assembly. XAB1 contains a cluster of acidic amino acids in its C-terminal region and a series of sequences similar to those found in GTP-binding proteins in its N-terminal region, suggesting that XAB1 has possible GTPase activity.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: GPN1 (human) mapping to 2p23.3.

## PRODUCT

XAB1 (h): 293T Lysate represents a lysate of human XAB1 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

## RESEARCH USE

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

## APPLICATIONS

XAB1 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive XAB1 antibodies.

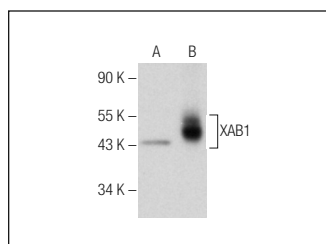
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

XAB1 (B-4): sc-365865 is recommended as a positive control antibody for Western Blot analysis of enhanced human XAB1 expression in XAB1 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>™</sup> Molecular Weight Standards: sc-2035, UltraCruz<sup>®</sup> Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

## DATA



XAB1 (B-4): sc-365865. Western blot analysis of XAB1 expression in non-transfected: sc-117752 (A) and human XAB1 transfected: sc-171461 (B) 293T whole cell lysates.

## STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.