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Diagnostik & molekulare Diagnostik



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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# IFI-35 (h): 293T Lysate: sc-175914

## BACKGROUND

The interferon family of proteins are able to alter the expression of a variety of target genes, thereby controlling various events within the cell. IFI-35 (interferon-induced 35 kDa protein), also known as IFP35, is a 286 amino acid interferon-induced protein. Localized to the nucleus and expressed in macrophages, fibroblasts and epithelial cells, IFI-35 is a leucine zipper protein that can form homodimers but, unlike most leucine zipper proteins, cannot bind DNA. Upon induction by IFN- $\alpha$ , IFI-35 associates with Nmi (N-Myc-interacting protein), resulting in the formation of a high molecular weight complex that is thought to play a role in IFN- $\alpha$  signaling and cellular responses. Once complexed with Nmi, IFI-35 is unable to be degraded by the proteasome, suggesting that IFI-35 is protected from degradation only when needed by IFN- $\alpha$ . Two isoforms of IFI-35 exist due to alternative splicing events.

## REFERENCES

1. Bange, F.C., et al. 1994. IFP-35 is an interferon-induced leucine zipper protein that undergoes interferon-regulated cellular redistribution. *J. Biol. Chem.* 269: 1091-1098.
2. Wang, X., et al. 1996. IFP-35 forms complexes with B-ATF, a member of the AP1 family of transcription factors. *Biochem. Biophys. Res. Commun.* 229: 316-322.
3. Meyerdierks, A., et al. 1999. A cytoplasmic structure resembling large protein aggregates induced by interferons. *J. Histochem. Cytochem.* 47: 169-182.
4. Zhou, X., et al. 2000. Interferon- $\alpha$  induces Nmi-IFP35 heterodimeric complex formation that is affected by the phosphorylation of IFP35. *J. Biol. Chem.* 275: 21364-21371.
5. Chen, J., et al. 2000. Interferon-inducible Myc/Stat-interacting protein Nmi associates with IFP35 into a high molecular mass complex and inhibits proteasome-mediated degradation of IFP35. *J. Biol. Chem.* 275: 36278-36284.
6. Chen, J. and Naumovski, L. 2002. Intracellular redistribution of interferon-inducible proteins Nmi and IFP35 in apoptotic cells. *J. Interferon Cytokine Res.* 22: 237-243.
7. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 600735. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
8. Zhang, L., et al. 2007. The PH domain containing protein CKIP-1 binds to IFP35 and Nmi and is involved in cytokine signaling. *Cell. Signal.* 19: 932-944.

## CHROMOSOMAL LOCATION

Genetic locus: IFI35 (human) mapping to 17q21.31.

## PRODUCT

IFI-35 (h): 293T Lysate represents a lysate of human IFI-35 transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l SDS-PAGE buffer.

## RESEARCH USE

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

## APPLICATIONS

IFI-35 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive IFI-35 antibodies.

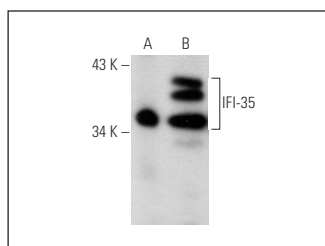
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

IFI-35 (39.287): sc-100769 is recommended as a positive control antibody for Western Blot analysis of enhanced human IFI-35 expression in IFI-35 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-IgG $\kappa$  BP-HRP: sc-516102 or m-IgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

## DATA



IFI-35 (39.287): sc-100769. Western blot analysis of IFI-35 expression in non-transfected: sc-117752 (A) and human IFI-35 transfected: sc-175914 (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.