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# HSP 56 (h): 293T Lysate: sc-175155

## BACKGROUND

HSP 56 (also designated FKBP4, FK506 binding protein 4, HBI, p52, FKBP52, FKBP59 and PPlase) is a cis-trans prolyl isomerase belonging to the immunophilin protein family. The human HSP 56 gene (FKBP4) has multiple polyadenylation sites and the HSP 56 protein can undergo phosphorylation. HSP 56 influences immunoregulatory gene expression in lymphocytes, protein folding and trafficking. It can serve as a co-chaperone for steroid hormone nuclear receptors to govern appropriate hormone action in target tissues. The protein can associate with phytanoyl-CoA  $\alpha$ -hydroxylase (PHYH) and with HSP90 through a series of tetratricopeptide repeat (TPR) domains. HSP 56 is a TRPC ion channel accessory protein that modulates channel activation following receptor stimulation.

## REFERENCES

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3. Sanokawa-Akakura, R., et al. 2004. A novel role for the immunophilin FKBP52 in copper transport. *J. Biol. Chem.* 279: 27845-27848.
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9. Kim, S.H., et al. 2005. Mitogenic estrogen metabolites alter the expression of 17 $\beta$ -estradiol-regulated proteins including heat shock proteins in human MCF-7 breast cancer cells. *Mol. Cells* 20: 378-384.

## CHROMOSOMAL LOCATION

Genetic locus: FKBP4 (human) mapping to 12p13.33.

## PRODUCT

HSP 56 (h): 293T Lysate represents a lysate of human HSP 56 transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l SDS-PAGE buffer.

## STORAGE

Store at -20 $^{\circ}$  C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

## APPLICATIONS

HSP 56 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive HSP 56 antibodies.

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

## RESEARCH USE

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

## PROTOCOLS

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