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The complex interactomes and post-translational modifications of the regulat

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Evidence for the association of the human regulatory ...

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Ki-1/57 (**HABP4**) and **CGI-55** (SERBP1) are regulatory proteins and paralogs with 40.7% amino acid sequence identity and 67.4% similarity.

Alterations in the nuclear proteome of HIV-1 infected T-cells

https://**www.ncbi.nlm.nih.gov**/pmc/articles/PMC4253593

SERBP1 also interacts with the C-terminal region of the chromo-helicase-DNA-binding domain **protein** 3 (CHD-3), which suggests it could play a role in the regulation of other nuclear **functions** such as chromatin remodeling (Lemos et al., 2003). Interestingly, both SERPINE1 and CHD-3 have been shown to interact with HIV-1 Tat.

Cited by: 9 **Author:** Jason DeBoer, Teena Jagadish, Nicole A....

Publish Year: 2014

The RNA-binding protein SERBP1 interacts selectively with ...

https://www.researchgate.net/publication/314240770_The_RNA-binding_**protein**_**SERBP1**...

The RACK1 **protein** interacts with numerous **proteins** involved in signal transduction, the cytoskeleton, and mRNA splicing and translation. We used the 2-hybrid system to identify additional **proteins** ...

Frontiers | Uncovering the Role of RNA-Binding Proteins in ...

https://www.frontiersin.org/articles/10.3389/fimmu.2018.01094

Transcriptional control is the first step to build efficient responses while **preventing immunodeficiencies** and autoimmunity. **Post-transcriptional regulation** of **RNA editing**, location, stability and **translation** are the other key steps for **final gene expression** and they are all controlled by **RNA binding proteins**.

Non-genomic progesterone actions in female reproduction ...

https://academic.oup.com/humupd/article/15/1/119/859361

Oct 19, 2008 - SERBP1 is a **multifunctional protein** that reportedly binds to the mRNA of **plasminogen activator inhibitor** 1 (serpine1) to **regulate** its stability (**Heaton et al.**, 2001) and **interacts** with chromatin remodelling factor CHD-3 (Lemos et al., 2003).

Cited by: 184 **Author:** Birgit Gellersen, Maria Sofia Fernandes, J...

Publish Year: 2008 **Author:** Gellersen, B., Fernandes, M.S., Brosens,...

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Evidence for the association of the human regulatory ...

https://www.researchgate.net/publication/51504496_Evidence_for_the_association_of_the...

Evidence for the association **of the** human **regulatory protein** Ki-1/57 with the translational machinery Article in FEBS letters 585(16):2556-60 · August 2011 with 55 Reads How we measure 'reads'

Ki-1/57 interacts with PRMT1 and is a substrate for ...

https://www.researchgate.net/publication/6906294_Ki-157_interacts_with_PRMT1_and_is_a...

Ki-1/57 interacts with several other **regulatory proteins** involved in **cellular** signaling, transcriptional regulation and RNA metabolism, suggesting it may have **pleiotropic functions**.

Ki-1/57 and CGI-55 ectopic expression impact cellular ...

https://www.researchgate.net/publication/265515845_Ki-157_and_CGI-55_ectopic...

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Characterization of a new family of proteins that interact ...

https://www.researchgate.net/publication/10970924_**Characterization_of_a_new_family**_of...

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Uncovering the Role of RNA-Binding Proteins in Gene ...

Name of Journal: *World Journal of Biological Chemistry*
Manuscript NO: 50153
Manuscript Type: REVIEW

Complex interactomes and post-translational modifications of the regulatory proteins HABP4 and SERBP1 suggest pleiotropic cellular functions

Carolina Colleti, Talita Diniz Melo-Hanchuk, Flávia Regina Moraes da Silva, Ângela Saito, Jörg Kobar

Abstract

Ki-1/57, also named intracellular hyaluronic acid binding protein 4 shares 40.7% identity and 67.4% similarity with serpin mRNA binding protein 1 protein, also named CGI-55, or yet: plasminogen activator inhibitor type-1-RNA binding protein-1, indicating that they might be paralog proteins, possibly with similar or redundant functions in human cells. Through the identification of their protein interactomes, both regulatory proteins have been functionally implicated in transcriptional regulation, mRNA metabolism, specifically RNA splicing, the regulation of mRNA stability, specially, in the context of the progesterone hormone response, and the DNA damage response. Both proteins show also a complex pattern of post-translational modifications, involving Ser/Thr phosphorylation, mainly through protein kinase C, receptor of activated C kinase 1, arginine-methylation and SUMOylation, suggesting that their functions and locations are highly regulated. Furthermore, they show a highly dynamic cellular localization pattern with localizations both to the cytoplasm and nucleus as well

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