

Recombinant Human KAT13A / SRC1 protein ab82205

描述

产品名称	重组人KAT13A / SRC1蛋白
纯度	> 95 % SDS-PAGE. Purified by an affinity column.
表达系统	Escherichia coli
Accession	<u>Q15788</u>
蛋白长度	Protein fragment
无动物成分	No
性质	Recombinant
种属	Human
氨基酸	627 to 786
额外的序列信息	Then His-tag was removed by Tev protease. This protein is not tagged and will be useful for assays where a native untagged protein is desired.

技术指标

Our **Abpromise guarantee** covers the use of **ab82205** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	SDS-PAGE
形式	Liquid

制备和贮存

稳定性和存储	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 7.9 Constituents: 0.75% Potassium chloride, 0.0154% DTT, 0.316% Tris HCl, 0.00584% EDTA, 20% Glycerol (glycerin, glycerine)
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常规信息

功能	Nuclear receptor coactivator that directly binds nuclear receptors and stimulates the transcriptional activities in a hormone-dependent fashion. Involved in the coactivation of different
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nuclear receptors, such as for steroids (PGR, GR and ER), retinoids (RXRs), thyroid hormone (TRs) and prostanoids (PPARs). Also involved in coactivation mediated by STAT3, STAT5A, STAT5B and STAT6 transcription factors. Displays histone acetyltransferase activity toward H3 and H4; the relevance of such activity remains however unclear. Plays a central role in creating multisubunit coactivator complexes that act via remodeling of chromatin, and possibly acts by participating in both chromatin remodeling and recruitment of general transcription factors. Required with NCOA2 to control energy balance between white and brown adipose tissues. Required for mediating steroid hormone response. Isoform 2 has a higher thyroid hormone-dependent transactivation activity than isoform 1 and isoform 3.

组织特异性

Widely expressed.

疾病相关

Note=A chromosomal aberration involving NCOA1 is a cause of rhabdomyosarcoma. Translocation t(2;2)(q35;p23) with PAX3 generates the NCOA1-PAX3 oncogene consisting of the N-terminus part of PAX3 and the C-terminus part of NCOA1. The fusion protein acts as a transcriptional activator. Rhabdomyosarcoma is the most common soft tissue carcinoma in childhood, representing 5-8% of all malignancies in children.

序列相似性

Belongs to the SRC/p160 nuclear receptor coactivator family.
Contains 1 basic helix-loop-helix (bHLH) domain.
Contains 1 PAS (PER-ARNT-SIM) domain.

结构域

The C-terminal (1107-1441) part mediates the histone acetyltransferase (HAT) activity. Contains 7 Leu-Xaa-Xaa-Leu-Leu (LXXLL) motifs. LXXLL motifs 3, 4 and 5 are essential for the association with nuclear receptors. LXXLL motif 7, which is not present in isoform 2, increases the affinity for steroid receptors in vitro.

翻译后修饰

Sumoylated; sumoylation increases its interaction with PGR and prolongs its retention in the nucleus. It does not prevent its ubiquitination and does not exert a clear effect on the stability of the protein.
Ubiquitinated; leading to proteasome-mediated degradation. Ubiquitination and sumoylation take place at different sites.
Phosphorylated upon DNA damage, probably by ATM or ATR.

细胞定位

Nucleus.

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