abcam

Product datasheet

Recombinant human PRMT1 protein (Active) ab198122

2 图像

描述

产品名称	重组人PRMT1蛋白(Active)
生物活性	**Specific Activity:** 6.2 pmol/min/µg. **Assay Conditions:** 50 µl reaction mix (20 mM phosphate buffer pH 7.4, 20 µM S-adenosyl methionine, and 1-5 ng ab198122 add to the wells coated with the substrate. Incubate at room temperature for 1 hr. Add antibody against methylated R3 residue of histone H4, incubate 1 hr. Add secondary HRP-labeled antibody and incubate 30 min. Finally, add HRP chemiluminescent substrates and read luminesence.
纯度	>= 68 % SDS-PAGE. Affinity purified.
表达系统	Baculovirus infected Sf9 cells
Accession	NM_001536
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human
序列	AAAEAANCIMENFVATLANGMSLQPPLEEVSCGQAESSEKPN AEDMTSKD YYFDSYAHFGIHEEMLKDEVRTLTYRNSMFHNRHLFKDKVVL DVGSGTGI LCMFAAKAGARKVIGIECSSISDYAVKIVKANKLDHVVTIIK GKVEEVEL PVEKVDIIISEWMGYCLFYESMLNTVLYARDKWLAPDGLIFP DRATLYVT AIEDRQYKDYKIHWWENVYGFDMSCIKDVAIKEPLVDVVDPK QLVTNACL IKEVDIYTVKVEDLTFTSPFCLQVKRNDYVHALVAYFNIEFT RCHKRTGF STSPESPYTHWKQTVFYMEDYLTVKTGEEIFGTIGMRPNAKN NRDLDFTI DLDFKGQLCELSCSTDYRMR
预测分子量	68 kDa including tags
氨基酸	2 to 371
标签	GST tag N-Terminus

技术指标

Our **Abpromise guarantee** covers the use of **ab198122** in the following tested applications.

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

应用	Functional Studies SDS-PAGE
形式	Liquid

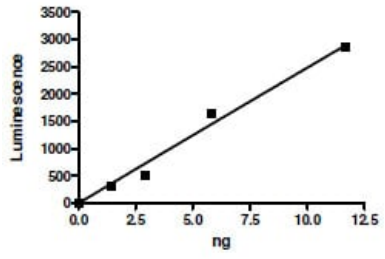
制备和贮存

稳定性和存储	Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.63% Tris HCl, 1.74% Sodium chloride, 20% Glycerol (glycerin, glycerine), 0.02% (R*,R*)-1,4-Dimercaptobutan-2,3-diol This product is an active protein and may elicit a biological response in vivo, handle with caution.

常规信息

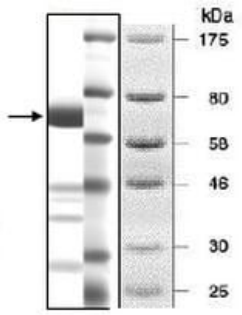
功能	Arginine methyltransferase that methylates (mono and asymmetric dimethylation) the guanidino nitrogens of arginyl residues present in proteins such as ESR1, histone H2, H3 and H4, PIAS1, HNRNPA1, HNRNPD, NFATC2IP, SUPT5H, TAF15 and EWS. Constitutes the main enzyme that mediates monomethylation and asymmetric dimethylation of histone H4 'Arg-4' (H4R3me1 and H4R3me2a, respectively), a specific tag for epigenetic transcriptional activation. Together with dimethylated PIAS1, represses STAT1 transcriptional activity, in the late phase of interferon gamma (IFN-gamma) signaling. May be involved in the regulation of TAF15 transcriptional activity, act as an activator of estrogen receptor (ER)-mediated transactivation, play a key role in neurite outgrowth and act as a negative regulator of megakaryocytic differentiation, by modulating p38 MAPK pathway.
组织特异性	Widely expressed.
序列相似性	Belongs to the protein arginine N-methyltransferase family.
细胞定位	Nucleus. Cytoplasm > cytosol.

图片



Functional Studies - Recombinant human PRMT1 protein (Active) (ab198122)

Activity assay using ab198122.



SDS-PAGE - Recombinant human PRMT1 protein (Active) (ab198122)

10% SDS-PAGE analysis of 1.5 µg ab198122 with Coomassie staining.

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