# abcam

## Product datasheet

## Recombinant Human GSK3 beta protein ab208324

## 1 图像

#### 描述

产品名称 重组人GSK3 beta蛋白

纯度 > 90 % SDS-PAGE.

Affinity purified

内毒素水平 < 1.000 Eu/µg

表达系统 Insect cells

Accession P49841

**蛋白长度** Full length protein

无动物成分 No

性质 Recombinant

种属 Human

序列 MSGRPRTTSF AESCKPVQQP SAFGSMKVSR

DKDGSKVTTV VATPGQGPDR PQEVSYTDTK
VIGNGSFGVV YQAKLCDSGE LVAIKKVLQD
KRFKNRELQI MRKLDHCNIV RLRYFFYSSG
EKKDEVYLNL VLDYVPETVY RVARHYSRAK
QTLPVIYVKL YMYQLFRSLA YIHSFGICHR
DIKPQNLLLD PDTAVLKLCD FGSAKQLVRG
EPNVSYICSR YYRAPELIFG ATDYTSSIDV
WSAGCVLAEL LLGQPIFPGD SGVDQLVEII
KVLGTPTREQ IREMNPNYTE FKFPQIKAHP
WTKVFRPRTP PEAIALCSRL LEYTPTARLT
PLEACAHSFF DELRDPNVKL PNGRDTPALF

NFTTQELSSN PPLATILIPP HARIQAAAST

PTNATAASDA NTGDRGQTNN AASASASNST HHHHHH

预测分子量 48 kDa including tags

**氨基酸** 1 to 420

标签 His tag C-Terminus 额**外的序列信息** NP 001139628

## 技术指标

Our Abpromise guarantee covers the use of ab208324 in the following tested applications.

1

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 at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 7.40

Constituents: 69% PBS, 0.01% PMSF, 30% Glycerol (glycerin, glycerine)

#### 常规信息

#### 功能

Participates in the Wnt signaling pathway. Implicated in the hormonal control of several regulatory proteins including glycogen synthase, MYB and the transcription factor JUN. Phosphorylates JUN at sites proximal to its DNA-binding domain, thereby reducing its affinity for DNA. Phosphorylates MUC1 in breast cancer cells, and decreases the interaction of MUC1 with CTNNB1/beta-catenin. Phosphorylates CTNNB1/beta-catenin. Phosphorylates SNAI1. Plays an important role in ERBB2-dependent stabilization of microtubules at the cell cortex. Prevents the phosphorylation of APC and CLASP2, allowing its association with the cell membrane. In turn, membrane-bound APC allows the localization of MACF1 to the cell membrane, which is required for microtubule capture and stabilization. Phosphorylates MACF1 and this phosphorylation inhibits the binding of MACF1 to microtubules which is critical for its role in bulge stem cell migration and skin wound repair.

组织特异性

Expressed in testis, thymus, prostate and ovary and weakly expressed in lung, brain and kidney.

序列相似性

Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. GSK-3 subfamily.

Contains 1 protein kinase domain.

翻译后修饰

Phosphorylated by AKT1 and ILK1. Activated by phosphorylation at Tyr-216.

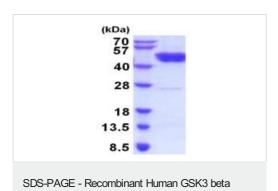
细胞定位

Cytoplasm. Nucleus. Cell membrane. The phosphorylated form shows localization to cytoplasm and cell membrane. The MEMO1-RHOA-DIAPH1 signaling pathway controls localization of the

phosophorylated form to the cell membrane.

#### 图片

protein (ab208324)



15% SDS-PAGE analysis of ab208324 (3 μg).

Molecular weight: 47.5 kDa (426 aa); 40-57 kDa (SDS-PAGE under reducing conditions)

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