# abcam

# Product datasheet

# NADPH oxidase 4 peptide ab179799

## 1 图像

#### 描述

产品名称 NADPH oxidase 4多肽

Accession Q9NPH5

无动物成分

性质 Synthetic

#### 技术指标

Our Abpromise guarantee covers the use of ab179799 in the following tested applications.

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

应用 Blocking

形式 Liquid

补充说明 - First try to dissolve a small amount of peptide in either water or buffer. The more charged

residues on a peptide, the more soluble it is in aqueous solutions.

- If the peptide doesn't dissolve try an organic solvent e.g. DMSO, then dilute using water or

buffer.

- Consider that any solvent used must be compatible with your assay. If a peptide does not

dissolve and you need to recover it, lyophilise to remove the solvent.

- Gentle warming and sonication can effectively aid peptide solubilisation. If the solution is

cloudy or has gelled the peptide may be in suspension rather than solubilised.

- Peptides containing cysteine are easily oxidised, so should be prepared in solution just prior

to use.

#### 制备和贮存

稳定性和存储 Shipped at 4°C. Store at 4°C (stable for up to 12 months). Upon delivery aliquot. Store at -20°C or

-80°C. Avoid freeze / thaw cycle.

#### 常规信息

功能

Constitutive NADPH oxidase which generates superoxide intracellularly upon formation of a complex with CYBA/p22phox. Regulates signaling cascades probably through phosphatases inhibition. May function as an oxygen sensor regulating the KCNK3/TASK-1 potassium channel

and HIF1A activity. May regulate insulin signaling cascade. May play a role in apoptosis, bone resorption and lipolysaccharide-mediated activation of NFKB. May produce superoxide in the nucleus and play a role in regulating gene expression upon cell stimulation. Isoform 3 is not functional. Isoform 4 displays an increased activity. Isoform 5 and isoform 6 display reduced

activity.

组织特异性 Expressed by distal tubular cells in kidney cortex and in endothelial cells (at protein level). Widely

expressed. Strongly expressed in kidney and to a lower extent in heart, adipocytes, hepatoma, endothelial cells, skeletal muscle, brain, several brain tumor cell lines and airway epithelial cells.

序列相似性 Contains 1 FAD-binding FR-type domain.

Contains 1 ferric oxidoreductase domain.

发展阶段 Expressed in fetal kidney and fetal liver.

翻译后修饰 soform 3 and isoform 4 are N-glycosylated. Isoform 4 glycosylation is required for its proper

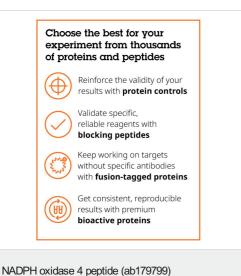
function.

细胞定位 Endoplasmic reticulum membrane. Cell membrane. Cell junction > focal adhesion. Nucleus. May

localize to plasma membrane and focal adhesions. According to PubMed:15927447, may also

localize to the nucleus.

#### 图片



To learn more about our protein and peptide range click **here**.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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