

Product datasheet

Recombinant Human VDAC1/Porin protein ab132481

[1 References](#) [1 Image](#)

Description

Product name	Recombinant Human VDAC1/Porin protein
Expression system	Wheat germ
Accession	P21796
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	<p>MAVPPTYADLGKSARDVFTKGYGFGLIKLDLKTKEANGLE FTSSGSANTE TTKVTGSLETKYRWTEYGLTFTEKWNTDNTLGTETVEDQL ARGLKLTFD SSFSPNTGKKNAKIKTGKREHINLGCDMDFDIAGPSIRGA LVLGYEGWL AGYQMFETAKSRVTQSNFAVGKTDDEFQLHTNVNDGTE FGGSYQKVNK KLETAVNLAWTAGNSNTRFGIAAKYQIDPDACFSAKVNNS SLIGLGYTQT LKPGIKLTLALLDGKNV NAGGHKLGLGLEFQA</p>
Predicted molecular weight	57 kDa including tags
Amino acids	1 to 283
Tags	GST tag N-Terminus

Specifications

Our [Abpromise guarantee](#) covers the use of **ab132481** in the following tested applications.

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

Applications	<p>ELISA</p> <p>Western blot</p> <p>SDS-PAGE</p>
Form	Liquid
Additional notes	Protein concentration is above or equal to 0.05 mg/ml.

Preparation and Storage

Stability and Storage

Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.

pH: 8.00

Constituents: 0.31% Glutathione, 0.79% Tris HCl

General Info

Function

Forms a channel through the mitochondrial outer membrane and also the plasma membrane. The channel at the outer mitochondrial membrane allows diffusion of small hydrophilic molecules; in the plasma membrane it is involved in cell volume regulation and apoptosis. It adopts an open conformation at low or zero membrane potential and a closed conformation at potentials above 30-40 mV. The open state has a weak anion selectivity whereas the closed state is cation-selective. May participate in the formation of the permeability transition pore complex (PTPC) responsible for the release of mitochondrial products that triggers apoptosis.

Tissue specificity

Heart, liver and skeletal muscle.

Sequence similarities

Belongs to the eukaryotic mitochondrial porin family.

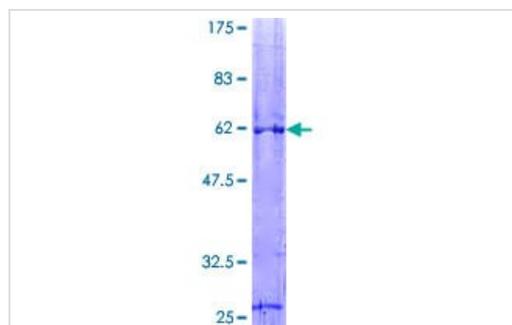
Domain

Consists mainly of a membrane-spanning beta-barrel formed by 19 beta-strands. The helical N-terminus folds back into the pore opening and plays a role in voltage-gated channel activity.

Cellular localization

Mitochondrion outer membrane. Cell membrane.

Images



12.5% SDS-PAGE analysis of ab132481 stained with Coomassie Blue

SDS-PAGE - Recombinant Human VDAC1/Porin protein (ab132481)

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish

- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors