

Rev03  
Update: Dec,14,2021

**DATASHEET**

# VDAC1 Antibody, pAb, Rabbit

Cat. No.: A01419

## Overview

<b>Specificity</b>	GenScript Rabbit Anti-VDAC1 Polyclonal Antibody detects endogenous levels of human, mouse and rat VDAC1.
<b>Host Species</b>	Rabbit
<b>Immunogen</b>	KLH-coupled synthetic peptide within residues 150-200 of human VDAC1 (Swiss Prot: P21796).
<b>Species Reactivity</b>	Human, mouse, and rat. This product has not been tested with other species yet.
<b>Conjugate</b>	Unconjugated

## Applications

Working concentrations for specific applications should be determined by the investigator. The appropriate concentrations may be affected by secondary antibody affinity, antigen concentration, the sensitivity of the method of detection, temperature, the length of the incubations, and other factors. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

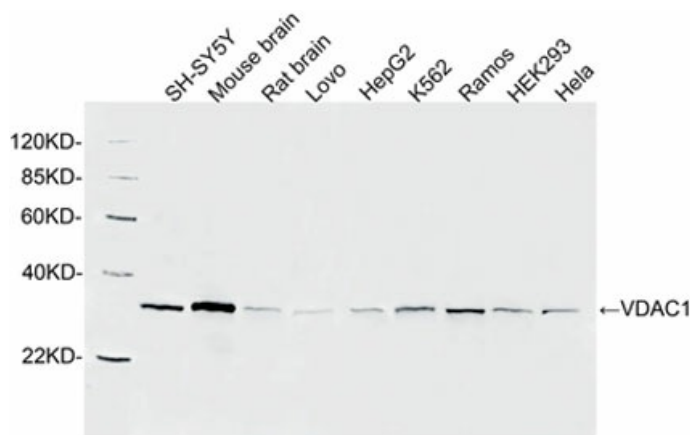
<b>Application</b>	<b>Recommended Usage</b>
ELISA	0.05-0.2 µg/ml
Western Blot	0.5-1 µg/ml
Other applications	User-optimized

## Properties

<b>Form</b>	Lyophilized
<b>Storage Buffer</b>	lyophilized with PBS, pH 7.4, containing 0.02% sodium azide
<b>Reconstitution</b>	Reconstitute the lyophilized powder with deionized water (or equivalent) to an final concentration of 0.5 mg/mL.

<b>Storage Instructions</b>	The antibody is stable in lyophilized form if stored at -20°C or below. The reconstituted antibody can be stored for 2-3 weeks at 2-8°C. For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.
<b>Purification</b>	Affinity chromatography
<b>Isotype</b>	Rabbit IgG
<b>Clonality</b>	Polyclonal
<b>Clone Id</b>	Not applicable

## Examples



Western blot analysis of cell and tissue lysates using 1 µg/ml Rabbit Anti-VDAC1 Polyclonal Antibody (GenScript, A01419). The signal was developed with IRDye™ 800 Conjugated Goat Anti-Rabbit IgG. Predicted Size: 31 KD. Observed Size: 31 KD.

## Background

**Target Background :** Voltage dependent anion selective channel protein 1 (also known as VDAC1 or mitochondrial Porin) is the predominant protein in the outer mitochondrial membrane. VDAC1 is predicted to have a beta-barrel structure and consist of either 13 or 16 membrane spanning strands. In particular, VDAC1 can function as an NADH ferricyanide reductase. It plays a vital role in modulating endostatin induced endothelial cell apoptosis. Its activity is regulated by Nek1 (NIMA related protein kinase 1) through phosphorylation of VDAC1 protein on serine 193. GenScript Rabbit Anti-VDAC1 Polyclonal Antibody is developed in rabbit using a KLH-coupled synthetic peptide within residues 150-200 of human VDAC1 (Swiss Prot: P21796).

**Synonyms :** Rabbit Anti-VDAC1 pAb;

**For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.**