

# AB-NN359-1

## VDAC1 Antibody

Pan-specific monoclonal antibody (S152B-23) for monitoring the expression of human VDAC1



# KINEXUS

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### Target Protein

<b>Name Long:</b>	Voltage-dependent anion-selective channel protein 1
<b>Alias:</b>	Voltage Dependent Anion Channel 1 , Voltage dependent anion selective channel protein 1, Voltage-dependent anion-selective channel protein 1, hVDAC1, Mitochondrial Porin, Outer mitochondrial membrane protein porin 1, Plasmalemmal porin, Porin 31HL, Porin 31HM, VDAC 1, VDAC, VDAC-1
<b>UniProt ID:</b>	P21796 - Human
<b>Human Predicted Mass (KDa):</b>	30.773 (283 AA; P21796-1)
<b>Observed SDS-PAGE Mass (KDa):</b>	30

### Immunogen

<b>Antibody Immunogen Source:</b>	Fusion protein amino acids 1-283 (full-length) of human VDAC1. Mouse: 98% identity (279/283 amino acids identical). Rat: 98% identity (279/283 amino acids identical) >60% identity with VDAC2 and VDAC3.
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### Production

<b>Antibody Host Species:</b>	Mouse
<b>Antibody Type:</b>	Monoclonal
<b>Antibody Ig Isotype Clone Lot:</b>	IgG2a
<b>Antibody Purification:</b>	Protein G purified
<b>Amount:</b>	25 µg
<b>Antibody Concentration:</b>	1 mg/ml
<b>Lot Number:</b>	15DE1
<b>Storage Buffer:</b>	Phosphate buffered saline pH 7.4, 50% glycerol, 0.1% sodium azide
<b>Storage Conditions and Stability:</b>	For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles. For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles.

### Applications

<b>Product Use:</b>	WB   IHC   ICC/IF
<b>Antibody Dilution Recommended:</b>	WB (1:1000); optimal dilutions for assays should be determined by the user.
<b>Antibody Species Reactivity:</b>	Human   Mouse   Rat
<b>Antibody Positive Control:</b>	1 µg/ml of SMC-456 was sufficient for detection of VDAC1 in 20 µg of rat brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.
<b>Target Detection Immunoblotting:</b>	In mouse brain lysates, this antibody detects a ~30 kDa protein.
<b>Antibody Specificity:</b>	Very high
<b>Antibody Cross Reactivities:</b>	Does not cross-react with VDAC2 or VDAC3 (based on KO validation results).

This product is for in vitro research use only and is not intended for use in humans or animals.

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