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Datasheet for ABIN6144725 anti-NOS1 antibody (AA 1-180)

2 Images



Overview

Quantity:	100 µL
Target:	NOS1
Binding Specificity:	AA 1-180
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NOS1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-180 of human NOS1 (NP_000611.1).
Sequence:	MEDHMFGVQQ IQPNVISVRL FKRKVGGLGF LVKERVSKPP VIISDLIRGG AAEQSGLIQA GDIILAVNGR PLVDLSYDSA LEVLRGIASE THVVLILRGP EGFTTHLETT FTGDGTPKTI RVTQPLGPPT KAVDLSHQPP AGKEQPLAVD GASGPGNGPQ HAYDDGQEAG SLPHANGLAP
Isotype:	lgG
Cross-Reactivity:	Mouse, Rat
Characteristics:	Polyclonal Antibodies
Target Details	
Target:	NOS1

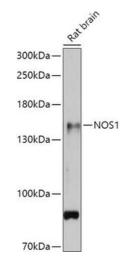
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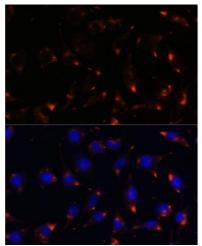
Target Details	
Alternative Name:	NOS1 (NOS1 Products)
Background:	The protein encoded by this gene belongs to the family of nitric oxide synthases, which
	synthesize nitric oxide from L-arginine. Nitric oxide is a reactive free radical, which acts as a
	biologic mediator in several processes, including neurotransmission, and antimicrobial and
	antitumoral activities. In the brain and peripheral nervous system, nitric oxide displays many
	properties of a neurotransmitter, and has been implicated in neurotoxicity associated with
	stroke and neurodegenerative diseases, neural regulation of smooth muscle, including
	peristalsis, and penile erection. This protein is ubiquitously expressed, with high level of
	expression in skeletal muscle. Multiple transcript variants that differ in the 5' UTR have been
	described for this gene but the full-length nature of these transcripts is not known. Additionally,
	alternatively spliced transcript variants encoding different isoforms (some testis-specific) have
	been found for this gene.,NOS1,IHPS1,N-NOS,NC-NOS,NOS,bNOS,nNOS,Cancer,Signal
	Transduction,MAPK-Erk Signaling Pathway,Endocrine &
	Metabolism,Neuroscience,Neurodegenerative Diseases,Cardiovascular,Angiogenesis,NOS1
Molecular Weight:	43 kDa/125 kDa/148 kDa/160 kDa/164 kDa
Gene ID:	4842
UniProt:	P29475
Pathways:	Negative Regulation of Hormone Secretion, Myometrial Relaxation and Contraction
Application Details	
Application Notes:	WB,1:500 - 1:2000,IF,1:20 - 1:50
Comment:	HIGH QUALITY
Restrictions:	For Research Use only
Handling	
Format:	Liquid

Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

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Images





Western Blotting

Image 1. Western blot analysis of extracts of Rat brain, using NOS1 antibody (ABIN6129512, ABIN6144725, ABIN6144726 and ABIN6216548) at 1:500 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 5s.

Immunofluorescence

Image 2. Immunofluorescence analysis of L929 cells using NOS1 antibody (ABIN6129512, ABIN6144725, ABIN6144726 and ABIN6216548) at dilution of 1:100. Blue: DAPI for nuclear staining.

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