Datasheet for ABIN6148142

anti-SMOX antibody (AA 1-200)

3 Images

Go to Product page

Overview

Quantity:	100 µL
Target:	SMOX
Binding Specificity:	AA 1-200
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SMOX antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-200 of human SMOX (NP_787034.1).
Sequence:	MQSCESSGDS ADDPLSRGLR RRGQPRVVVI GAGLAGLAAA KALLEQGFTD VTVLEASSHI GGRVQSVKLG HATFELGATW IHGSHGNPIY HLAEANGLLE ETTDGERSVG RISLYSKNGV ACYLTNHGRR IPKDVVEEFS DLYNEVYNLT QEFFRHDKPV NAESQNSVGV FTREEVRNRI RNDPDDPEAT KRLKLAMIQQ
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

Target Details

Target:	SMOX
Alternative Name:	SMOX (SMOX Products)
Background:	Polyamines are ubiquitous polycationic alkylamines which include spermine, spermidine, putrescine, and agmatine. These molecules participate in a broad range of cellular functions which include cell cycle modulation, scavenging reactive oxygen species, and the control of gene expression. These molecules also play important roles in neurotransmission through their regulation of cell-surface receptor activity, involvement in intracellular signalling pathways, and their putative roles as neurotransmitters. This gene encodes an FAD-containing enzyme that catalyzes the oxidation of spermine to spermadine and secondarily produces hydrogen peroxide. Multiple transcript variants encoding different isoenzymes have been identified for this gene, some of which have failed to demonstrate significant oxidase activity on natural polyamine substrates. The characterized isoenzymes have distinctive biochemical characteristics and substrate specificities, suggesting the existence of additional levels of complexity in polyamine catabolism.,SMOX,C20orf16,PAO,PAO-1,PAO1,PAOH,PAOH1,SMO,Signal Transduction,Endocrine & Metabolism,Amino acid metabolism,Drug metabolism,SMOX
Molecular Weight:	20 kDa/43 kDa/56 kDa/59 kDa/61 kDa/65 kDa
Gene ID:	54498
UniProt:	Q9NWM0

Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200
Restrictions:	For Research Use only

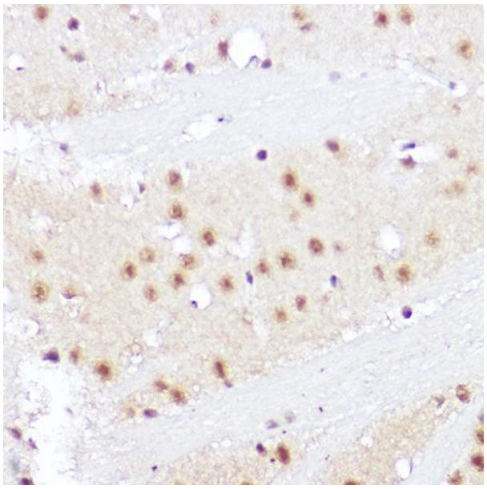
Handling

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

Handling

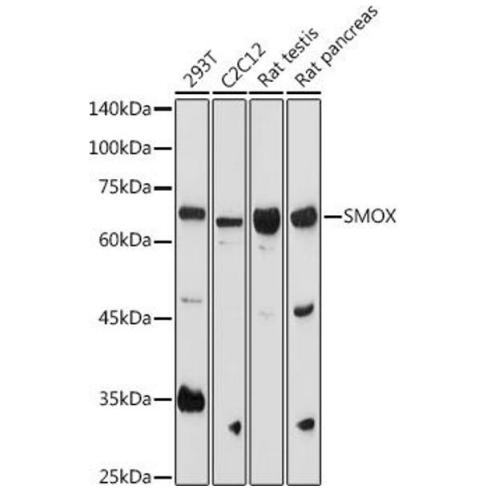
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Images



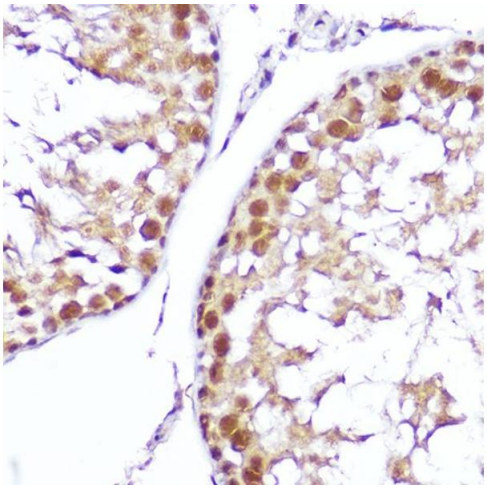
Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded rat brain using SMOX Rabbit pAb (ABIN6132875, ABIN6148142, ABIN6148143 and ABIN6215369) at dilution of 1:100 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using SMOX antibody (ABIN6132875, ABIN6148142, ABIN6148143 and ABIN6215369) at 1:1000 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: 90s.



Immunohistochemistry

Image 3. Immunohistochemistry of paraffin-embedded mouse testis using SMOX Rabbit pAb (ABIN6132875, ABIN6148142, ABIN6148143 and ABIN6215369) at dilution of 1:100 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.