Datasheet for ABIN674559

anti-ODC1 antibody (AA 321-461)

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Overview

Quantity:	100 µL
Target:	ODC1
Binding Specificity:	AA 321-461
Reactivity:	Human, Rat, Mouse, Dog, Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ODC1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human ODC1
Isotype:	IgG
Cross-Reactivity:	Dog, Human, Mouse, Pig, Rat
Predicted Reactivity:	Cow,Horse
Purification:	Purified by Protein A.

Target Details

Target:	ODC1

Target Details

Alternative Name:	ODC (ODC1 Products)
Background:	Synonyms: ODC, ODC1, Mitochondrial 2-oxodicarboxylate carrier, Solute carrier family 25 member 21, SLC25A21 Background: Transports C5-C7 oxodicarboxylates across the inner membranes of mitochondria. Can transport 2-oxoadipate, 2-oxoglutarate, adipate, glutarate, and to a lesser extent, pimelate, 2-oxopimelate, 2-aminoadipate, oxaloacetate, and citrate.
Gene ID:	89874
UniProt:	P11926

Application Details

Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200

Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

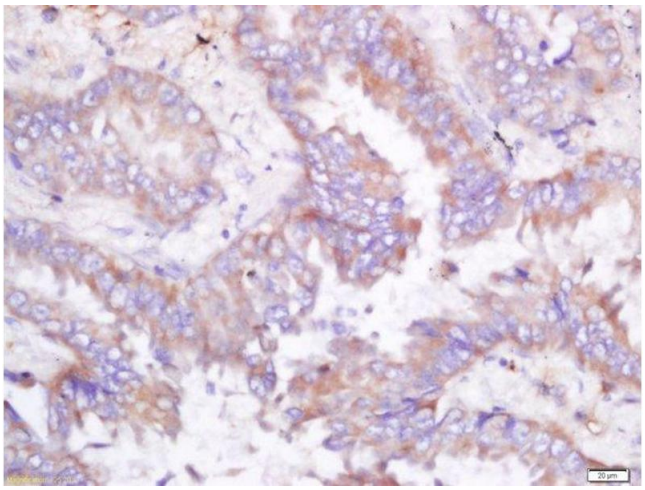
Publications

Product cited in:

Chen, Liu, Wang, Wang, Li, Shi, Zhu, Zhang, Pi, Hu, Lin, Odle: "Asparagine improves intestinal integrity, inhibits TLR4 and NOD signaling, and differently regulates p38 and ERK1/2 signaling in weanling piglets after LPS challenge." in: **Innate immunity**, Vol. 22, Issue 8, pp. 577-587, (2016) (PubMed).

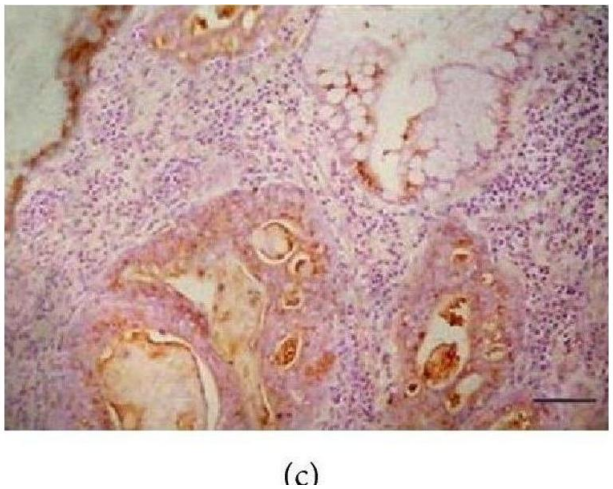
Rossi, Cerquetella, Pengo, Mari, Balint, Bassotti, Manolescu: "Immunohistochemical expression of ornithine decarboxylase, diamine oxidase, putrescine, and spermine in normal canine enterocolic mucosa, in chronic colitis, and in colorectal cancer." in: **BioMed research international**, Vol. 2015, pp. 172756, (2016) (PubMed).

Images



Immunohistochemistry (Paraffin-embedded Sections)

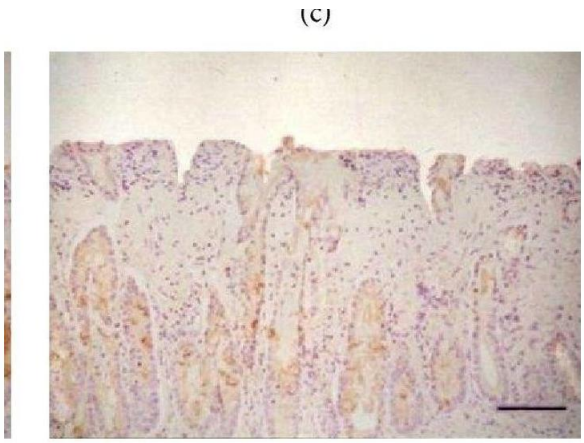
Image 1. Formalin-fixed and paraffin embedded human lung carcinoma labeled with Rabbit Anti-ODC Polyclonal Antibody, Unconjugated (ABIN674559) at 1:200 followed by conjugation to the secondary antibody and DAB staining



(c)

Immunohistochemistry

Image 2. Expression of DAO and ODC in different colonic pathological conditions. (a) Morphological aspect of colonic carcinoma with areas of squamous metaplasia. (b) The same section stained with anti-DAO polyclonal antibody, note the weak positivity diffused particularly in well-preserved mucosal epithelium. (c) In a consequent section stained with anti-ODC pAb the strong expression of the enzyme is observed in metaplastic undifferentiated areas. (d) Morphology of granulomatous colitis with severe crypts involvement and areas of subepithelial fibrosis. (e) The expression of DAO in a consequent section shows a continuous and strong expression in the superficial



epithelium, but only occasional and spotted strong stain in epithelium lining the crypts. (f) Weak and focal expression of ODC in a successive section evidences the low concentration of the enzyme in colonic epithelium during the granulomatous phlogosis. ((a) and (d) H&E, (b), (c), (e), and (f) IHC stain, Meyer's haematoxylin counterstain, (a), (b), and (c) bar = 300μm, (d), (e), and (f) bar = 600μm). - figure provided by CiteAb. Source: PMID26550563

Immunohistochemistry

Image 3. Expression of DAO and ODC in different colonic pathological conditions. (a) Morphological aspect of colonic carcinoma with areas of squamous metaplasia. (b) The same section stained with anti-DAO polyclonal antibody, note the weak positivity diffused particularly in well-preserved mucosal epithelium. (c) In a consequent section stained with anti-ODC pAb the strong expression of the enzyme is observed in metaplastic undifferentiated areas. (d) Morphology of granulomatous colitis with severe crypts involvement and areas of subepithelial fibrosis. (e) The expression of DAO in a consequent section shows a continuous and strong expression in the superficial epithelium, but only occasional and spotted strong stain in epithelium lining the crypts. (f) Weak and focal expression of ODC in a successive section evidences the low concentration of the enzyme in colonic epithelium during the granulomatous phlogosis. ((a) and (d) H&E, (b), (c), (e), and (f) IHC stain, Meyer's haematoxylin counterstain, (a), (b), and (c) bar = 300μm, (d), (e), and (f) bar = 600μm). - figure provided by CiteAb. Source: PMID26550563