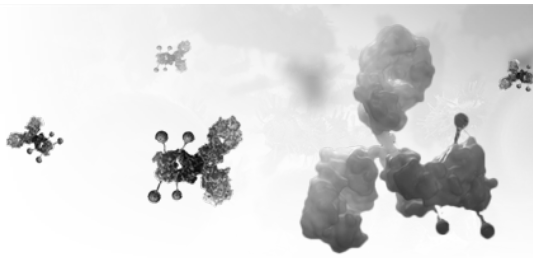

Rabbit Anti-Human ANO1 Monoclonal Antibody, clone CQ7143 (CABT-Z205R)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	Synthetic peptide corresponding to DOG1 residues within aa1-100 of DOG1 was used as an immunogen.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Clone	CQ7143
Purification	ProA affinity purified IgG.
Conjugate	Unconjugated
Applications	IHC-P Recommended concentration: IHC-P: 1:100-1:200
Molecular Weight	114 kDa
Cellular Localization	Membrane/Cytoplasm
Positive Control	GIST
Format	Liquid
Concentration	Lot specific
Size	100 µl

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

Buffer	PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.
Preservative	0.01% Sodium azide
Storage	Store at -20 °C. Avoid freeze/thaw cycles.
Ship	Wet ice

BACKGROUND

Introduction	DOG1 is a calcium-dependent chloride channel protein that is encoded by a gene called TMEM16A (TMEM16 FLJ10261, ANO1, ORAOV2, and AOS2) located on chromosome 11q13. DOG1 has many significant functions such as regulation of the cholinergic activity of gastrointestinal smooth muscle and regulation of both the survival and proliferation of cells. DOG1 is detected in gastrointestinal Cajal cells, acinic cells in salivary glands (apical membraneous staining, particularly in serous cells), pancreatic centroacinar cells, liver cells, and epithelium of biliary tract, breast, stomach, and prostate. More than 90% of all gastrointestinal stromal tumors (GISTs) are DOG1 positive, irrespective of kit mutation and CD117 positivity. The staining pattern varies from cytoplasmic to membranous, with usually strong, diffuse intensity. DOG1 is an important marker in the identification of GIST together with CD117, slightly more sensitive (particularly in gastric GIST without c-kit mutation) and also more specific than CD117. DOG1 is also useful in the classification of salivary carcinomas, and pancreatic and renal tumors.
Keywords	ANO1; anoctamin 1, calcium activated chloride channel; DOG1; TAOS2; ORAOV2; TMEM16A; anoctamin-1; Ca2+-activated Cl- channel; oral cancer overexpressed 2; tumor-amplified and overexpressed sequence 2

GENE INFORMATION

Gene Name	ANO1
Entrez Gene ID	55107
UniProt ID	Q5XXA6

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