

# DOG-1 Recombinant Rabbit Monoclonal Antibody (SP31)

## Product Details

Size	500 µL
Species Reactivity	Human
Published Species	Human
Host/Isotype	Rabbit / IgG
Expression system	proprietary
Class	Recombinant Monoclonal
Type	Antibody
Clone	SP31
Conjugate	Unconjugated
Immunogen	Synthetic peptides of human DOG-1 protein
Form	Liquid
Concentration	0.057 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.2, with 1% BSA
Contains	0.1% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2537877

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	2 Publications
Immunohistochemistry (IHC)	-	4 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:100	-
Immunocytochemistry (ICC/IF)	1:100	-
Flow Cytometry (Flow)	1:20	-

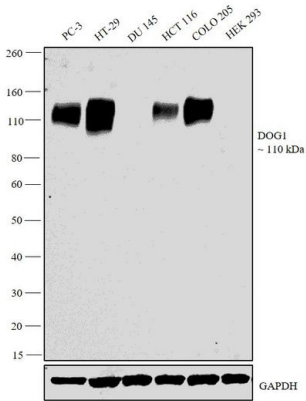
## Product Specific Information

Heat-mediated antigen retrieval is recommended prior to staining, using a 10mM citrate buffer, pH 6.0, for 10 minutes followed by cooling at room temperature for 20 min. Following antigen retrieval, incubate samples with primary antibody for 10 min at room temperature. A suggested positive control is gastrointestinal stromal tumor.

Product Images For DOG-1 Recombinant Rabbit Monoclonal Antibody (SP31)

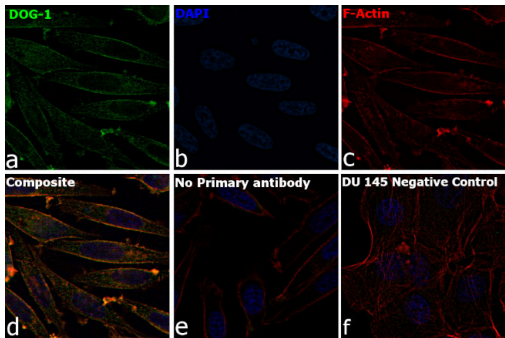
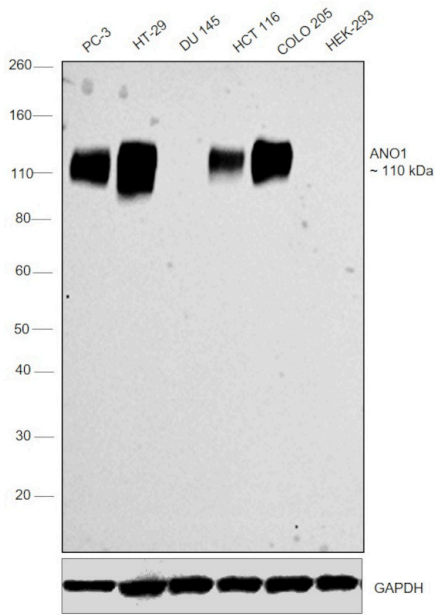
DOG-1 Antibody (MA5-16358) in WB

Western blot was performed using Anti-DOG1 Monoclonal antibody(SP31) (Product # MA5-16358) and a 110 kDa band corresponding to DOG1 was observed in PC-3, HT-29, HCT 116 and COLO 205 but not in DU 145 and HEK 293 which are reported to be negative. Membrane enriched extracts (30 µg lysate) of PC-3 (Lane 1), HT-29 (Lane 2), DU 145 (Lane 3), HCT 116 (Lane 4), COLO 205 (Lane 5) and HEK 293 (Lane 6) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:1000 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain), Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



DOG-1 Antibody (MA5-16358)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell lines tested owing to their inherent genetic constitution. Relative expression of DOG-1 was observed in PC-3, HT-29, HCT 116 and COLO 205 cells in comparison to DU 145, HEK-293 cells using Anti-DOG-1 Monoclonal Antibody (SP31) (Product # MA5-16358) in Western blot. {RE}



DOG-1 Antibody (MA5-16358)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell lines tested owing to their inherent genetic constitution. Relative expression of DOG-1 was observed in PC-3 cells in cytoplasm, in comparison to DU 145 using Anti-DOG-1 Monoclonal Antibody (SP31) (Product # MA5-16358) in Immunofluorescence. {RE}

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Western Blot (2)

Clinical proteomics	Year 2023
Identification of potential molecular targets for the treatment of cluster 1 human pheochromocytoma and paraganglioma via comprehensive proteomic characterization.	
"Published figure using DOG-1 recombinant monoclonal antibody (Product # MA5-16358) in Western Blot"	
Authors: Vit O,Talacko P,Musil Z,Hartmann I,Pacak K,Petrak J	
Clinical cancer research : an official journal of the American Association for Cancer Research	Year 2017
TMEM16A/ANO1 Inhibits Apoptosis Via Downregulation of Bim Expression.	
"Published figure using DOG-1 recombinant monoclonal antibody (Product # MA5-16358) in Western Blot"	
Authors: Godse NR,Khan N,Yochum ZA,Gomez-Casal R,Kemp C,Shiwarski DJ,Seethala RS,Kulich S,Seshadri M,Burns TF,Duvvuri U	

Immunohistochemistry (4)

Scientific reports	Year 2015
TMEM16A/ANO1 is differentially expressed in HPV-negative versus HPV-positive head and neck squamous cell carcinoma through promoter methylation.	
"MA5-16358 was used in immunohistochemistry to elucidate differential expression of TMEM16A/ANO1 in HPV-positive and HPV-negative head and neck squamous cell carcinoma through promoter methylation"	
Authors: Dixit R,Kemp C,Kulich S,Seethala R,Chiosea S,Ling S,Ha PK,Duvvuri U	
International journal of surgical pathology	Year 2014
Plexiform fibromyxoma (plexiform angiomyxoid myofibroblastic tumor) of stomach: an unusual presentation as a fistulating abscess.	Species Human
"MA5-16358 was used in immunohistochemistry to report on a case of plexiform fibromyxoma of the stomach"	Dilution 1:100
Authors: Lee PW,Yau DT,Lau PP,Chan JK	

[View more IHC references on thermofisher.cn](#)

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