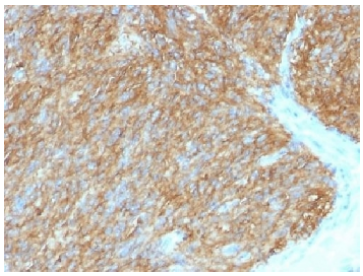
DOG1 Antibody [clone DG1/1486] (V3473)

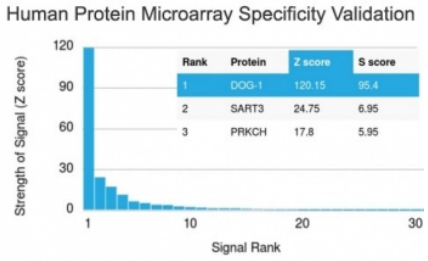
Catalog No.	Formulation	Size
V3473-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3473-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3473SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3473IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

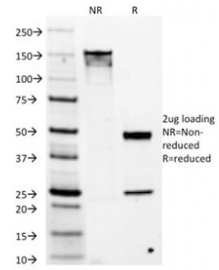
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	DG1/1486
Purity	Protein G affinity chromatography
UniProt	Q5XXA6
Localization	Cell Surface and Cytoplasmic
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This DOG1 antibody is available for research use only.



IHC testing of FFPE human gastrointestinal stromal tumor (GIST) with DOG1 antibody (clone DG1/1486). Required HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using DOG1 antibody (clone DG1/1486). These results demonstrate the foremost specificity of the DG1/1486 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free DOG 1 antibody (clone DG1/1486) as confirmation of integrity and purity.

Description

Expression of DOG-1 protein is elevated in the gastrointestinal stromal tumors (GIST s), c-kit signaling-driven mesenchymal tumors of the GI tract. DOG-1 is rarely expressed in other soft tissue tumors, which, due to appearance, may be difficult to diagnose. Immunoreactivity for DOG-1 has been reported in 97.8 percent of scorable GIST s, including all c-kit negative GIST s. Overexpression of DOG-1 has been suggested to aid in the identification of GISTs, including Platelet-Derived Growth Factor Receptor Alpha mutants that fail to express c-kit antigen. The overall sensitivity of DOG1 and c-kit in GIST s is nearly identical: 94.4% vs. 94.7%.

Application Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the DOG1 antibody to be titered up or down for optimal performance.

Immunogen

A recombinant human protein corresponding to amino acids 2-101 of human DOG1 was used as the immunogen for this DOG1 antibody.

Storage

Store the DOG1 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

References (1)