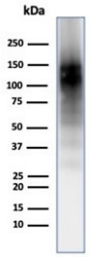
CD56 Antibody [clone 56C04, also called 123A8] (V7487)

Catalog No.	Formulation	Size
V7487-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7487-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7487SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V7487IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

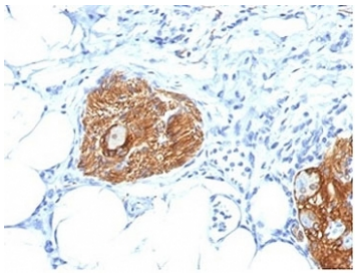
Citations (23)

Bulk quote request

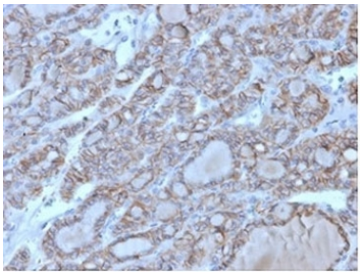
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	56C04, also called 123A8
Purity	Protein G affinity chromatography
UniProt	P13591
Localization	Cell surface, cytoplasmic
Applications	Immunofluorescence : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT Western Blot : 1-2ug/ml
Limitations	This CD56 antibody is available for research use only.



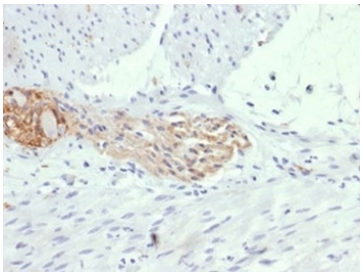
Western blot testing of human brain tissue with CD56 antibody (clone 56C04/123A8). Predicted molecular weight: ~110 kDa (soluble fragment), ~120/125 kDa (GPI-anchored), 140/180 kDa (transmembrane isoforms).



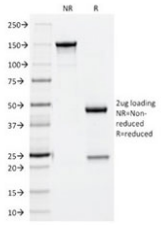
IHC staining of FFPE human pancreas tissue with CD56 antibody (clone 56C04/123A8). HIER: boil tissue sections in pH9 EDTA buffer for 10-20 min followed by cooling at RT for 20 min.



IHC staining of FFPE human thyroid tissue with CD56 antibody (clone 56C04/123A8). HIER: boil tissue sections in pH9 EDTA buffer for 10-20 min followed by cooling at RT for 20 min.



IHC staining of FFPE human colon tissue with CD56 antibody (clone 56C04/123A8). HIER: boil tissue sections in pH9 EDTA buffer for 10-20 min followed by cooling at RT for 20 min.



SDS-PAGE analysis of purified, BSA-free CD56 antibody (clone 56C04/123A8) as confirmation of integrity and purity.

Description

Three isoforms of neural cell adhesion molecule (NCAM) are produced by differential splicing of the RNA transcript from a single gene. The 135kDa isoform is the basic molecule, which is glycosylated or sialylated to produce the mature species. Anti-CD56 recognizes two proteins of the neural cell adhesion molecule, the basic molecule expressed on most neuroectodermally derived tissues and neoplasms (e.g. retinoblastoma, medulloblastomas, astrocytomas, neuroblastomas, and small cell carcinomas). It is also expressed on some mesodermally derived tumors (rhabdomyosarcoma). Anti-CD56 plays an important role in the diagnosis of nodal and nasal NK/T-cell lymphomas.

Application Notes

The optimal dilution of the CD56 antibody for each application should be determined by the researcher.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

A membrane preparation of small cell lung carcinoma was used as the immunogen for this CD56 antibody. This mAb reacts with an extracellular domain (close to transmembrane) of CD56/NCAM.

Storage

Store the CD56 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).