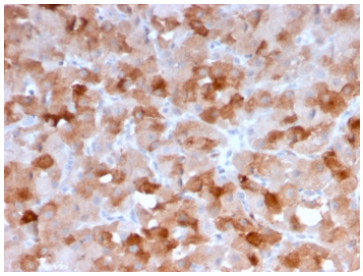
VISTA Antibody / GI24 [clone VISTA/3007] (V7580)

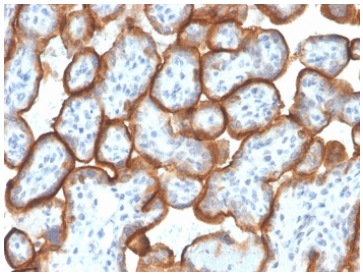
Catalog No.	Formulation	Size
V7580-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7580-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7580SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V7580IHC-7ML	Prediluted 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

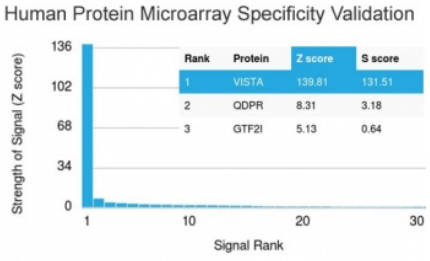
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	VISTA/3007
Purity	Protein G affinity chromatography
UniProt	Q9H7M9
Localization	Cell membrane, cytoplasm
Applications	ELISA (order BSA/sodium azide-free format for coating) Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Limitations	This VISTA antibody is available for research use only.



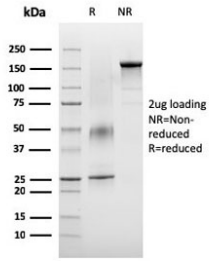
IHC staining of FFPE human squamous cell carcinoma with VISTA antibody (clone VISTA/3007). HIER: boil tissue sections in pH 9, 10mM Tris with 1mM EDTA, 10-20 min and allow to cool before testing.



IHC staining of FFPE human placenta with VISTA antibody (clone VISTA/3007). HIER: boil tissue sections in pH 9, 10mM Tris with 1mM EDTA, 10-20 min and allow to cool before testing.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using VISTA antibody (clone VISTA/3007). These results demonstrate the foremost specificity of the VISTA/3007 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 VISTA antibody (clone VISTA/3007) as confirmation of integrity and purity.

Description

VISTA / GI24 is a transmembrane protein expressed in bone, on embryonic stem cells (ESCs), and on tumor cell surfaces. On ESC's, Gi24 appears to positively interact with BMP-4, potentiating BMP signaling and the transition from an undifferentiated to a differentiated state. On tumor cells, Gi24 both promotes MT1-MMP expression and activity and serves as a substrate for MT1-MMP. This increases the potential for cell motility. Mature human Gi24 contains a 162aa extracellular region with one V-type Ig-like domain and a 96aa cytoplasmic domain. Human Gi24 undergoes proteolytic cleavage by MT1-MMP, generating a soluble 30kDa extracellular fragment plus a 25-30kDa membrane-bound fragment. VISTA is a negative checkpoint regulator and is expressed on myeloid cells, T-cells and human TILs (tumor infiltrating lymphocytes) on MDSCs (myeloid-derived suppressor cells) in the TME (tumor microenvironment). It is very likely both a ligand and receptor and is a promising target for cancer immunotherapy.

Application Notes

Optimal dilution of the VISTA antibody 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 recombinant full-length human VISTA protein was used as the immunogen for the VISTA antibody.

Storage

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

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