

Datasheet for ABIN7661776
anti-VTCN1 antibody (CF®647)



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Overview

Quantity:	100 µL
Target:	VTCN1
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This VTCN1 antibody is conjugated to CF®647
Application:	Immunohistochemistry (IHC), Immunohistochemistry (Formalin-fixed Paraffin-embedded Sections) (IHC (fp))

Product Details

Purpose:	VISTA / B7-H5 / VSIR (Negative Regulator of Immune Response)(VISTA/3007), CF647 conjugate
Immunogen:	Recombinant full-length human VISTA protein
Clone:	VISTA-3007
Isotype:	IgG2b, kappa
Characteristics:	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

Product Details

domain. Human Gi24 undergoes proteolytic cleavage by MT1-MMP, generating a soluble 30 kDa extracellular fragment plus a 25-30 kDa 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. Primary antibodies are available purified, or with a selection of fluorescent CF® Dyes and other labels. CF® Dyes offer exceptional brightness and photostability. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors.

Target Details

Target:	VTCN1
Alternative Name:	B7-H5
Background:	Synonyms: B7H5, DD1alpha, Gi24, PD-1H, PDCD1 homolog, Platelet receptor Gi24, PP2135, Stress-induced secreted protein 1 (SISP1), V domain Ig suppressor of T cell activation (VISTA), V Set Immuno-Regulatory Receptor Gene Symbol: VSIR
Molecular Weight:	34 kDa
Gene ID:	64115
UniProt:	Q9H7M9

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	Positive Control: Spleen or Placenta.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.1 mg/mL
Buffer:	PBS, 0.1 % BSA, 0.05 % azide

Handling

Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Protect from light
Storage:	4 °C
Storage Comment:	Stable at room temperature or 37°C for 7 days. Protect from light Store at 2 to 8°C. Protect fluorescent conjugates from light
Expiry Date:	24 months