

## Datasheet for ABIN7661812 **anti-VISTA antibody (CF®740)**



[Go to Product page](#)

### Overview

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Quantity:    | 100 µL                                                                                                  |
| Target:      | VISTA                                                                                                   |
| Reactivity:  | Human                                                                                                   |
| Host:        | Mouse                                                                                                   |
| Clonality:   | Monoclonal                                                                                              |
| Conjugate:   | This VISTA antibody is conjugated to CF®740                                                             |
| Application: | Immunohistochemistry (IHC), Immunohistochemistry (Formalin-fixed Paraffin-embedded Sections) (IHC (fp)) |

### Product Details

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purpose:         | VISTA / Gi24 (Negative Regulator of Immune Response)(VISTA/3006), CF740 conjugate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Immunogen:       | Recombinant full-length human VISTA protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Clone:           | VISTA-3006                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 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 domain. Human Gi24 undergoes proteolytic cleavage by MT1-MMP, generating a soluble 30 |

## Product Details

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:           | VISTA                                                                                                                                                                                                                               |
| Alternative Name: | GI24                                                                                                                                                                                                                                |
| 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, V Set Immuno-regulatory Receptor<br>Gene Symbol: VSIR |
| Molecular Weight: | 34 kDa                                                                                                                                                                                                                              |
| Gene ID:          | 64115                                                                                                                                                                                                                               |
| UniProt:          | <a href="#">Q9H7M9</a>                                                                                                                                                                                                              |
| Pathways:         | <a href="#">Cancer Immune Checkpoints</a>                                                                                                                                                                                           |

## Application Details

|                    |                                                                    |
|--------------------|--------------------------------------------------------------------|
| Application Notes: | Optimal working dilution should be determined by the investigator. |
| Comment:           | Positive Control: Human spleen or placenta tissue (IHC).           |
| Restrictions:      | For Research Use only                                              |

## Handling

|                |                               |
|----------------|-------------------------------|
| Format:        | Liquid                        |
| Concentration: | 0.1 mg/mL                     |
| Buffer:        | PBS, 0.1 % rBSA, 0.05 % azide |

## Handling

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|                    |                                                                                                                                      |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| 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.<br>Protect from light<br>Store at 2 to 8°C. Protect fluorescent conjugates from light |
| Expiry Date:       | 24 months                                                                                                                            |