Recombinant Human TIGIT Protein

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<th>Catalog No</th>
<th>RP00080</th>
<th>Category</th>
<th>Recombinant Protein</th>
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Description
Recombinant Human TIGIT Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Met22-Pro141) of human TIGIT (Accession #NP_776160.2) fused with a 6×His tag at the C-terminus.

Bio-Activity
Measured by its binding ability in a functional ELISA. Immobilized Human TIGIT at 1.5 ug/mL (100 μL/well) can bind Human CD155 with a linear range of 0.15-1.2ug/mL.

Sequence Information
Species
Human
Gene ID
201633
Tags
6×His tag at the C-terminus
Swiss Prot
Q495A1
Synonyms
VSIG9;VSTM3;WUCAM

Product information
Source
HEK293 cells
Purity
> 97% by SDS-PAGE.
Endotoxin
< 0.1 EU/μg of the protein by LAL method.
Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.
Reconstitution
Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.
Storage
Store the lyophilized protein at -20°C to -80 °C for long term.
After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.
Avoid repeated freeze/thaw cycles.

Background
This protein is a member of the PVR (poliovirus receptor) family of immunoglobin proteins. The protein is expressed on several classes of T cells including follicular B helper T cells (TFH). The protein has been shown to bind PVR with high affinity; this binding is thought to assist interactions between TFH and dendritic cells to regulate T cell dependent B cell responses.

Validated Data
Recombinant Human TIGIT Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 18-22 kDa.

Immobilized Human TIGIT at 1.5 ug/mL (100 μL/well) can bind Human CD155 with a linear range of 0.15-1.2ug/mL.