

## Product datasheet for **TA351903**

### ULBP1 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	IHC: 25-100 Positive control: Human breast cancer Predicted cell location: Cytoplasm
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide of human ULBP1
Formulation:	pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	UL16 binding protein 1
Database Link:	<a href="#">NP_079494</a> <a href="#">Entrez Gene 80329 Human</a> <a href="#">Q9BZM6</a>

**Background:** Ligand for the KLRK1/NKG2D receptor, together with at least ULBP2 and ULBP3. ULBPs activate multiple signaling pathways in primary NK cells, resulting in the production of cytokines and chemokines. Binding of ULBPs ligands to KLRK1/NKG2D induces calcium mobilization and activation of the JAK2, STAT5, ERK and PI3K kinase/Akt signal transduction pathway. In CMV infected cells, interacts with soluble CMV glycoprotein UL16. The interaction with UL16 blocked the interaction with the KLRK1/NKG2D receptor, providing a mechanism by which CMV infected cells might escape the immune system. UL16 also causes ULBP1 to be retained in the ER and cis-Golgi apparatus so that it does not reach the cell surface.



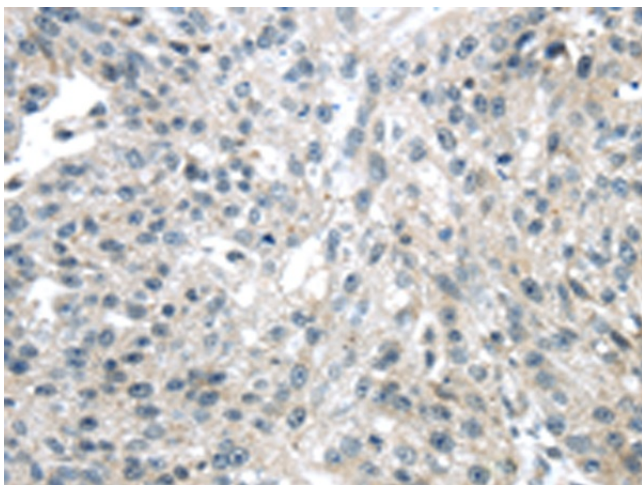
[View online »](#)

Synonyms: RAET11

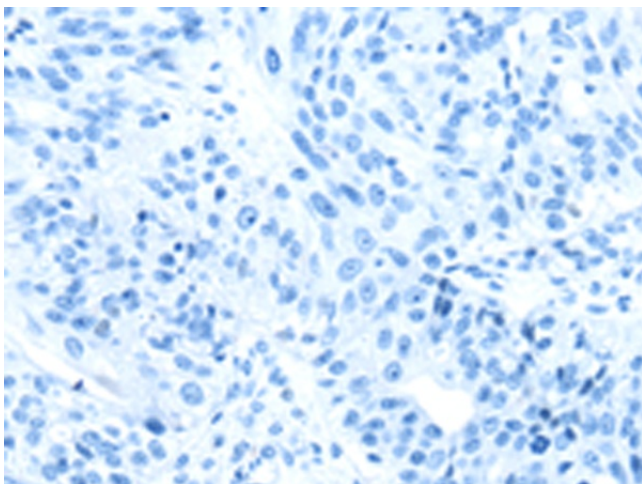
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Natural killer cell mediated cytotoxicity

### Product images:



Immunohistochemistry of paraffin-embedded Human breast cancer tissue using TA351903 (ULBP1 Antibody) at dilution 1/25 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human breast cancer tissue using TA351903 (ULBP1 Antibody) at dilution 1/25, treated with synthetic peptide. (Original magnification:  $\times 200$ )