

## Product datasheet for **TA368266**

### HLAC (HLA-C) Rabbit Polyclonal Antibody

#### Product data:

|                       |                                                                                                    |
|-----------------------|----------------------------------------------------------------------------------------------------|
| Product Type:         | Primary Antibodies                                                                                 |
| Applications:         | IHC                                                                                                |
| Recommended Dilution: | IHC: 25-100<br>Positive control: Human colorectal cancer<br>Predicted cell location: Cell membrane |
| Reactivity:           | Human                                                                                              |
| Host:                 | Rabbit                                                                                             |
| Isotype:              | IgG                                                                                                |
| Clonality:            | Polyclonal                                                                                         |
| Immunogen:            | Synthetic peptide of human HLA-C                                                                   |
| 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.                                                                                    |
| Stability:            | 1 year                                                                                             |
| Gene Name:            | major histocompatibility complex, class I, C                                                       |
| Database Link:        | <a href="#">Entrez Gene 3107 Human P10321</a>                                                      |



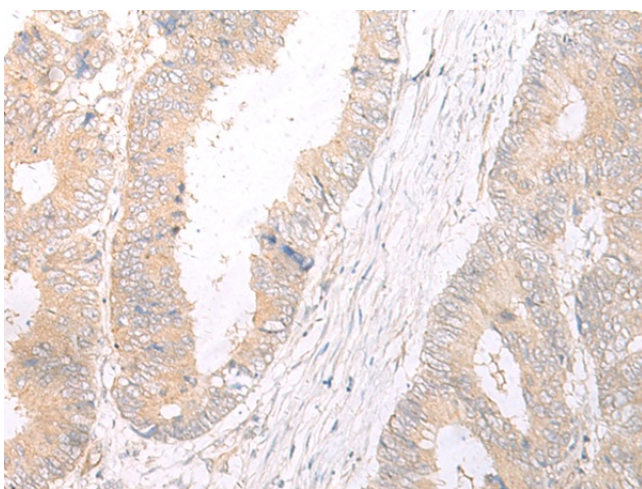
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**Background:**

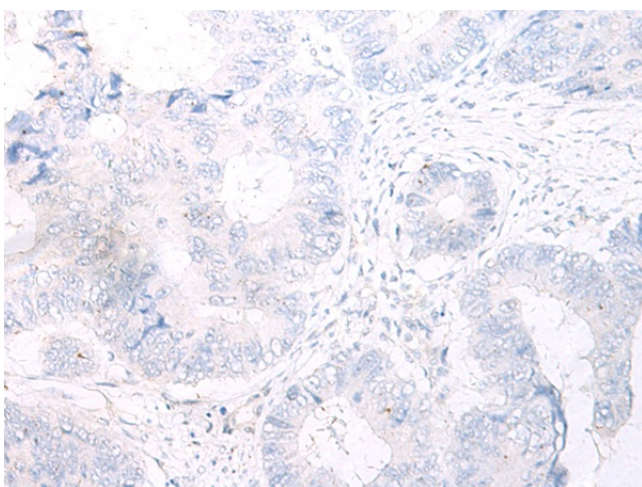
HLA-C belongs to the HLA class I heavy chain paralogues. This class I molecule is a heterodimer consisting of a heavy chain and a light chain (beta-2 microglobulin). The heavy chain is anchored in the membrane. Class I molecules play a central role in the immune system by presenting peptides derived from endoplasmic reticulum lumen. They are expressed in nearly all cells. The heavy chain is approximately 45 kDa and its gene contains 8 exons. Exon one encodes the leader peptide, exons 2 and 3 encode the alpha1 and alpha2 domain, which both bind the peptide, exon 4 encodes the alpha3 domain, exon 5 encodes the transmembrane region, and exons 6 and 7 encode the cytoplasmic tail. Polymorphisms within exon 2 and exon 3 are responsible for the peptide binding specificity of each class one molecule. Typing for these polymorphisms is routinely done for bone marrow and kidney transplantation. Over one hundred HLA-C alleles have been described

**Synonyms:**

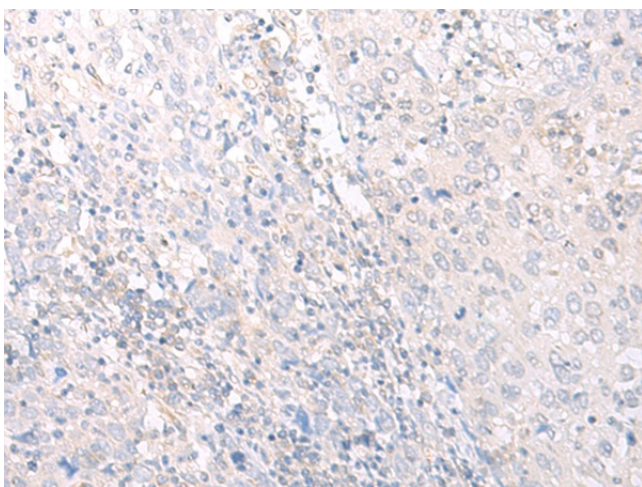
D6S204; HLA-Cw\*050x; HLA-JY3; HLC-C; PSORS1

**Product images:**

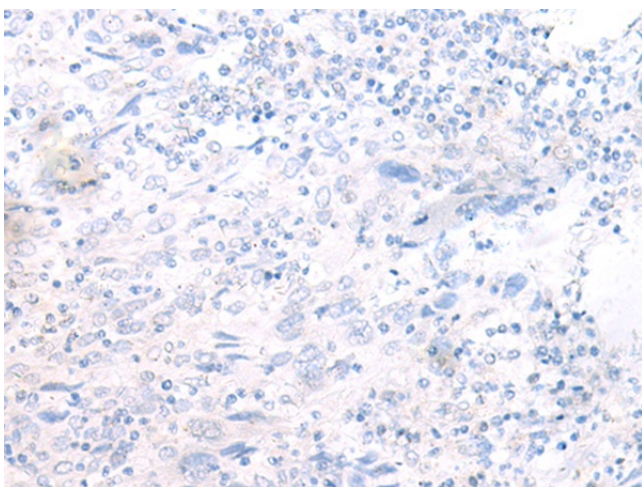
Immunohistochemistry of paraffin-embedded Human colorectal cancer tissue using TA368266 (HLA-C Antibody) at dilution 1/25 (Original magnification: x200)



Immunohistochemistry of paraffin-embedded Human colorectal cancer tissue using TA368266 (HLA-C Antibody) at dilution 1/25, treated with synthetic peptide. (Original magnification: x200)



Immunohistochemistry of paraffin-embedded Human cervical cancer tissue using TA368266 (HLA-C Antibody) at dilution 1/25 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human cervical cancer tissue using TA368266 (HLA-C Antibody) at dilution 1/25, treated with synthetic peptide. (Original magnification:  $\times 200$ )