

## CD126 Monoclonal Antibody

### Description

<b>Product type</b>	Antibody
<b>Code</b>	BT-MCA2031
<b>Host</b>	Mouse
<b>Isotype</b>	Mouse IgG1
<b>Size</b>	100µL, 50µL
<b>Immunogen</b>	Purified recombinant fragment of human CD126 (AA: EXTRA 20-177) expressed in E. Coli.
<b>Mol wt</b>	52kDa
<b>Species reactivity</b>	Others
<b>Clonality</b>	Monoclonal
<b>Recommended application</b>	WB,IHC,ICC,FCM
<b>Concentration</b>	N/A
<b>Full name</b>	N/A
<b>Synonyms</b>	IL6Q;gp80;CD126;HIES5;IL-6R;IL6RA;IL6RQ;IL-1Ra;IL-6RA;IL6QTL;IL-6R-1

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

### Background

This gene encodes a subunit of the interleukin 6 (IL6) receptor complex. Interleukin 6 is a potent pleiotropic cytokine that regulates cell growth and differentiation and plays an important role in the immune response. The IL6 receptor is a protein complex consisting of this protein and interleukin 6 signal transducer (IL6ST/GP130/IL6-beta), a receptor subunit also shared by many other cytokines. Dysregulated production of IL6 and this receptor are implicated in the pathogenesis of many diseases, such as multiple myeloma, autoimmune diseases and prostate cancer. Alternatively spliced transcript variants encoding distinct isoforms have been identified in this gene. A pseudogene of this gene is found on chromosome 9. [provided by RefSeq, Aug 2020]

### Recommended Dilution

WB: 1:500 - 1:2000

IHC-p: 1:200 - 1:1000

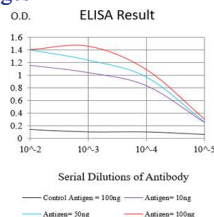
ICC: 1:200 - 1:1000

FCM: 1:200 - 1:400

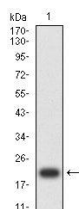
ELISA: 1:10000

Not yet tested in other applications.

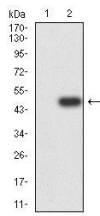
### Images



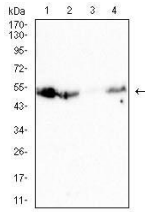
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



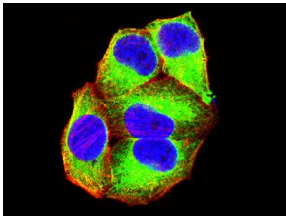
Western blot analysis using CD126 mAb against human CD126 (AA:20-177) recombinant protein. (Expected MW is 20.3 kDa)



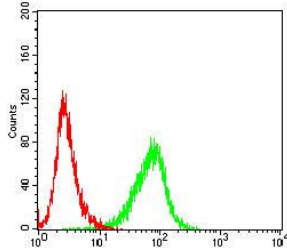
Western blot analysis using CD126 mAb against HEK293 (1) and CD126 (AA:20-177)-hIgGFc transfected HEK293-6e (2) cell lysate.



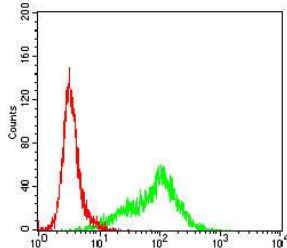
Western blot analysis using CD126 mouse mAb against Jurkat (1), MOLT4 (2), Raw264.7 (3) and THP-1 (4) cell lysate.



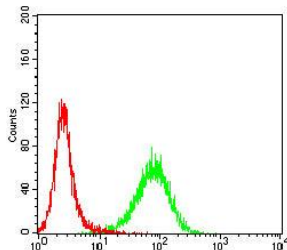
Immunofluorescence analysis of HeLa cells using CD126 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)



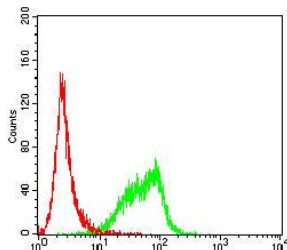
Flow cytometric analysis of Jurkat cells using CD126 mouse mAb (green) and negative control (red).



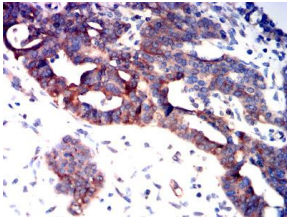
Flow cytometric analysis of K562 cells using CD126 mouse mAb (green) and negative control (red).



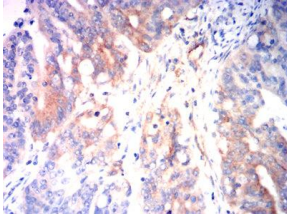
Flow cytometric analysis of THP-1 cells using CD126 mouse mAb (green) and negative control (red).



Flow cytometric analysis of U937 cells using CD126 mouse mAb (green) and negative control (red).



Immunohistochemical analysis of paraffin-embedded ovarian cancer tissues using CD126 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded rectal cancer tissues using CD126 mouse mAb with DAB staining.

### Storage

Store at 4°C short term. Aliquot and store at -20°C long term.

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