

## Anti-ADRA1A antibody

|                 |   |
|-----------------|---|
| <b>Cat. No.</b> | ml161265  |
| <b>Package</b>  | 25 µl/100 µl/200 µl                                     |
| <b>Storage</b>  | -20°C, pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol |

### Product overview

|                     |  |
|---------------------|--|
| <b>Description</b>  | Anti-ADRA1A rabbit polyclonal antibody |
| <b>Applications</b> | ELISA, WB, IHC                         |
| <b>Immunogen</b>    | Synthetic peptide of human ADRA1A      |
| <b>Reactivity</b>   | Human, Mouse, Rat                      |
| <b>Content</b>      | 0.8 mg/ml                              |
| <b>Host species</b> | Rabbit                                 |
| <b>Ig class</b>     | Immunogen-specific rabbit IgG          |
| <b>Purification</b> | Antigen affinity purification          |

### Target information

|                  |                            |
|------------------|----------------------------|
| <b>Symbol</b>    | ADRA1A                     |
| <b>Full name</b> | adrenoceptor alpha 1A      |
| <b>Synonyms</b>  | ADRA1C; ADRA1L1; ALPHA1AAR |
| <b>Swissprot</b> | P35348                     |

### Target Background

Alpha-1-adrenergic receptors (alpha-1-ARs) are members of the G protein-coupled receptor superfamily. They activate mitogenic responses and regulate growth and proliferation of many cells. There are 3 alpha-1-AR subtypes: alpha-1A, -1B and -1D, all of which signal through the Gq/11 family of G-proteins and different subtypes show different patterns of activation. This gene encodes alpha-1A-adrenergic receptor. Alternative splicing of this gene generates four transcript variants, which encode four different isoforms with distinct C-termini but having similar ligand binding properties.

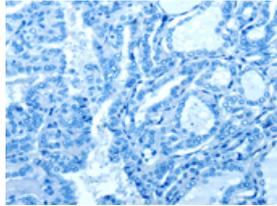
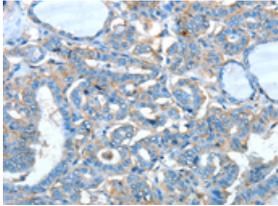
## Applications

### Immunohistochemistry

Predicted cell location: Cytoplasm

Positive control: Human thyroid cancer

Recommended dilution: 50-200

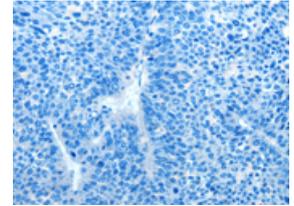
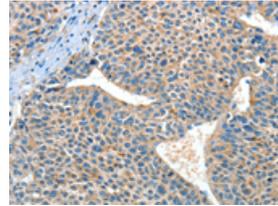


The image on the left is immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using ml161265(ADRA1A Antibody) at dilution 1/60, on the right is treated with synthetic peptide. (Original magnification:  $\times 200$ )

Predicted cell location: Cytoplasm

Positive control: Human liver cancer

Recommended dilution: 50-200



The image on the left is immunohistochemistry of paraffin-embedded Human liver cancer tissue using ml161265(ADRA1A Antibody) at dilution 1/60, on the right is treated with synthetic peptide. (Original magnification:  $\times 200$ )

### Western blotting

Predicted band size: 51 kDa

Positive control: PC3 and Raji cells

Recommended dilution: 200-1000

Gel: 10% SDS-PAGE

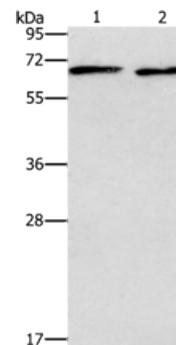
Lysate: 40  $\mu$ g

Lane 1-2: PC3 cells, Raji cells

Primary antibody: ml161265(ADRA1A Antibody) at dilution 1/337.5

Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution

Exposure time: 10 seconds



### ELISA

Recommended dilution: 2000-5000

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