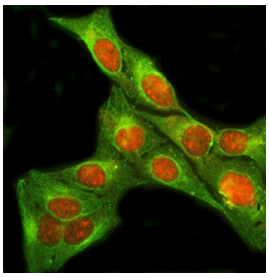
# SIX4 Antibody / Sine oculis homeobox homolog 4 (RQ8216)

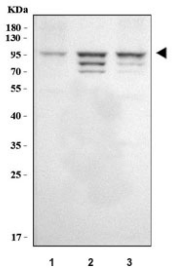
| Catalog No. | Formulation | Size |
|---|---|---|
| RQ8216 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

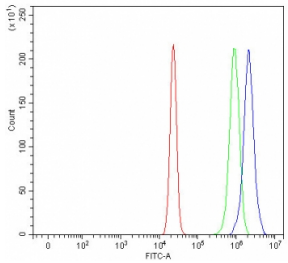
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Antigen affinity purified |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Antigen affinity purified |
| **Buffer** | Lyophilized from 1X PBS with 2% Trehalose |
| **UniProt** | Q9UIU6 |
| **Localization** | Nuclear, cytoplasmic |
| **Applications** | Western Blot : 0.5-1ug/ml<br>Immunofluorescence : 5ug/ml<br>Flow Cytometry : 1-3ug/million cells<br>Direct ELISA : 0.1-0.5ug/ml |
| **Limitations** | This SIX4 antibody is available for research use only. |



Immunofluorescent staining of FFPE human U-2 OS cells with SIX4 antibody (red) and Beta Tubulin mAb (green). HIER: steam section in pH6 citrate buffer for 20 min.




Western blot testing of human 1) A431, 2) RT4 and 3) U-2 OS cell lysate with SIX4 antibody. Predicted molecular weight ~83 kDa, commonly observed at 83-98 kDa.




Flow cytometry testing of fixed and permeabilized human U937 cells with SIX4 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= SIX4 antibody.

## Description

Homeobox protein SIX4 is a protein that in humans is encoded by the SIX4 gene. This gene encodes a member of the homeobox family, subfamily SIX. The drosophila homolog is a nuclear homeoprotein required for eye development. Studies in mouse show that this gene product functions as a transcription factor, and may have a role in the differentiation or maturation of neuronal cells.

## Application Notes

Optimal dilution of the SIX4 antibody should be determined by the researcher.

## Immunogen

E. coli-derived recombinant human protein (amino acids Q387-L781) was used as the immunogen for the SIX4 antibody.

## Storage

After reconstitution, the SIX4 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.