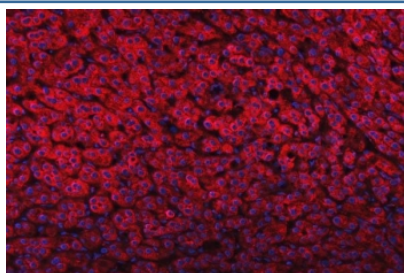


## Delta-5 desaturase Antibody / FADS1 / Fatty acid desaturase 1 (RQ7425)

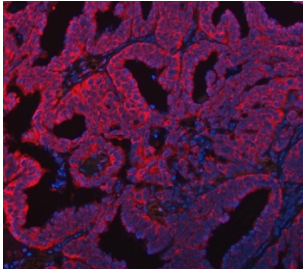
Catalog No.	Formulation	Size
RQ7425	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

**Bulk quote request**

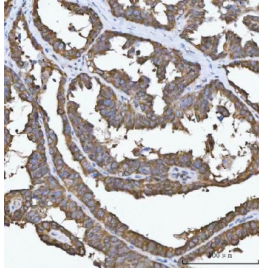
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Antigen affinity purified
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Antigen affinity purified
<b>Buffer</b>	Lyophilized from 1X PBS with 2% Trehalose
<b>UniProt</b>	O60427
<b>Localization</b>	Cytoplasmic
<b>Applications</b>	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Flow Cytometry : 1-3ug/million cells Immunofluorescence : 5ug/ml Direct ELISA : 0.1-0.5ug/ml
<b>Limitations</b>	This Delta-5 desaturase antibody is available for research use only.



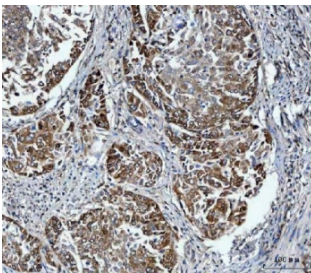
Immunofluorescent staining of FFPE human liver cancer tissue with Delta-5 desaturase antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA buffer for 20 min.



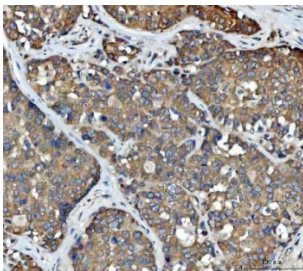
Immunofluorescent staining of FFPE human ovarian cancer tissue with Delta-5 desaturase antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA buffer for 20 min.



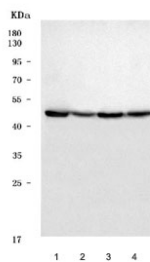
IHC staining of FFPE human ovarian cancer tissue with Delta-5 desaturase antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



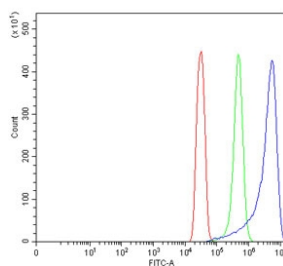
IHC staining of FFPE human lung cancer tissue with Delta-5 desaturase antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human liver cancer tissue with Delta-5 desaturase antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of human 1) HepG2, 2) A549, 3) Jurkat and 4) HeLa cell lysate with Delta-5 desaturase antibody. Predicted molecular weight: ~52 kDa.



Flow cytometry testing of human SiHa cells with Delta-5 desaturase antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue=Delta-5 desaturase antibody.

## Description

Fatty acid desaturase 1 is an enzyme that in humans is encoded by the FADS1 gene. The protein encoded by this gene is a member of the fatty acid desaturase (FADS) gene family. Desaturase enzymes regulate unsaturation of fatty acids through the introduction of double bonds between defined carbons of the fatty acyl chain. FADS family members are considered fusion products composed of an N-terminal cytochrome b5-like domain and a C-terminal multiple membrane-spanning desaturase portion, both of which are characterized by conserved histidine motifs. This gene is clustered with family members FADS1 and FADS2 at 11q12-q13.1; this cluster is thought to have arisen evolutionarily from gene duplication based on its similar exon/intron organization.

## Application Notes

Optimal dilution of the Delta-5 desaturase antibody should be determined by the researcher.

## Immunogen

E. coli-derived recombinant human protein (amino acids M1-M257) was used as the immunogen for the Delta-5 desaturase antibody.

## Storage

After reconstitution, the Delta-5 desaturase antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.