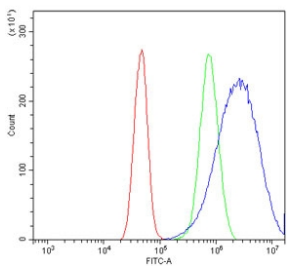
ICAD Antibody (RQ6169)

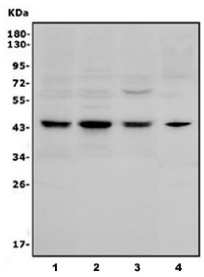
Catalog No.	Formulation	Size
RQ6169	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.0125% sodium azide
UniProt	O00273
Applications	Western Blot : 1-2ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This ICAD antibody is available for research use only.



Flow cytometry testing of human A431 cells with ICAD antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= ICAD antibody.



Western blot testing of human 1) HeLa, 2) HEK293, 3) HepG2 and 4) rat stomach lysate with ICAD antibody. Predicted molecular weight ~45 kDa.

Description

DNA fragmentation factor subunit alpha (DFFA), also known as Inhibitor of caspase-activated DNase (ICAD), is a protein that in humans is encoded by the DFFA gene. Apoptosis is a cell death process that removes toxic and/or useless cells during mammalian development. The apoptotic process is accompanied by shrinkage and fragmentation of the cells and nuclei and degradation of the chromosomal DNA into nucleosomal units. DNA fragmentation factor (DFF) is a heterodimeric protein of 40-kD (DFFB) and 45-kD (DFFA) subunits. DFFA is the substrate for caspase-3 and triggers DNA fragmentation during apoptosis. DFF becomes activated when DFFA is cleaved by caspase-3. The cleaved fragments of DFFA dissociate from DFFB, the active component of DFF. DFFB has been found to trigger both DNA fragmentation and chromatin condensation during apoptosis. Two alternatively spliced transcript variants encoding distinct isoforms have been found for this gene.

Application Notes

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

Immunogen

A human recombinant partial protein (amino acids E14-S308) was used as the immunogen for the ICAD antibody.

Storage

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

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