ARG54414
anti-ICAD antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes ICAD
Tested Reactivity	Ms
Tested Application	IHC-P, WB
Specificity	This antibody recognizes non-cleaved (45kDa) and cleaved mouse ICAD.
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	ICAD
Species	Mouse
Immunogen	Peptide corresponding to aa 2-21 at the N-terminus of mouse ICAD (accession no. O54786).
Conjugation	Un-conjugated
Alternate Names	DFF-45; DNA fragmentation factor 45 kDa subunit; Inhibitor of CAD; ICAD; DFF1; DNA fragmentation factor subunit alpha

Application Instructions

Application table

Application	Dilution
IHC-P	Assay-dependent
WB	1:500 - 1:1000

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	Mouse lung

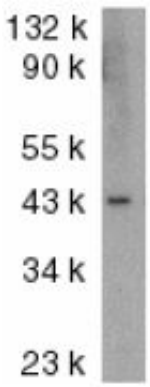
Properties

Form	Liquid
Purification	Immunoaffinity chroma-tography
Buffer	PBS (pH 7.4) and 0.02% Sodium azide
Preservative	0.02% Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

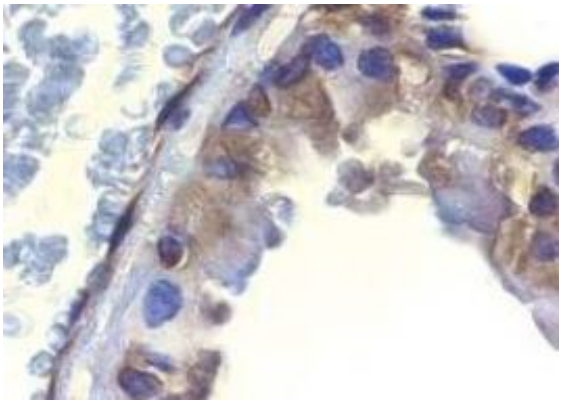
Database links	GeneID: 13347 Mouse Swiss-port # O54786 Mouse
Gene Symbol	Dffa
Gene Full Name	DNA fragmentation factor, alpha subunit
Background	A human DNA fragmentation factor (DFF) that is cleaved by caspase-3 during apoptosis was identified recently. The mouse homologue of human DFF was identified as a DNase inhibitor and was designated ICAD (inhibitor of caspase-activated DNase). Upon cleavage of DFF/ICAD, a caspase activated deoxyribonuclease (CAD) is released and activated and eventually causes the degradation of DNA in nuclei. Therefore, cleavage of CAD inhibitor molecule DFF/ICAD, which causes DNase activation and DNA degradation, is a hallmark of apoptotic cell death.
Function	Inhibitor of the caspase-activated DNase (DFF40). [UniProt]
Research Area	Cell Biology and Cellular Response antibody; Cell Death antibody; Gene Regulation antibody; Metabolism antibody
Calculated Mw	37 kDa
PTM	Caspase-3 cleaves DFF45 at 2 sites to generate an active factor.

Images



ARG54414 anti-ICAD antibody WB image

Western Blot: murine lung tissue stained with ARG54414 anti-ICAD antibody at 1 µg/ml dilution.



ARG54414 anti-ICAD antibody IHC image

Immunohistochemistry: murine lung tissue stained with ARG54414 anti-ICAD antibody at 2 µg/ml dilution.