ARG56937
anti-UNG antibody [k1C12]

Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [k1C12] recognizes UNG
Tested Reactivity	Hu
Tested Application	ICC/IF, WB
Host	Mouse
Clonality	Monoclonal
Clone	k1C12
Isotype	IgG2b, kappa
Target Name	UNG
Species	Human
Immunogen	Recombinant fragment around aa. 1-313 of Human UNG.
Conjugation	Un-conjugated
Alternate Names	Uracil-DNA glycosylase; HIGM4; HIGM5; UNG1; UNG2; UNG15; UDG; DGU; EC 3.2.2.27

Application Instructions

Application table

Application	Dilution
ICC/IF	1:100
WB	1:1000 - 1:2000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

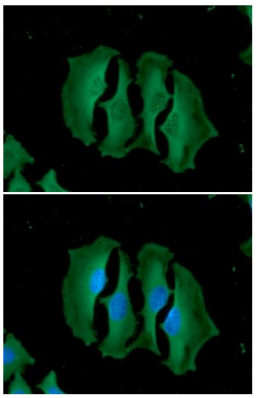
Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	10% Glycerol
Concentration	1 mg/ml
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. 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

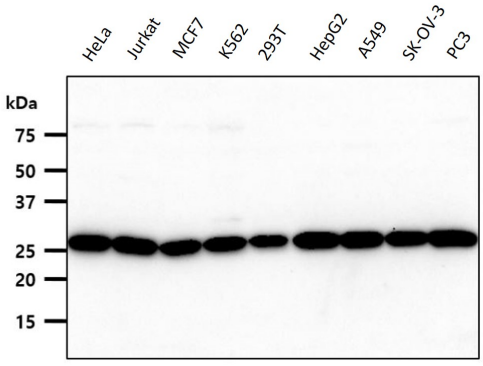
Database links	GeneID: 7374 Human Swiss-port # P13051 Human
Gene Symbol	UNG
Gene Full Name	uracil DNA glycosylase
Background	This gene encodes one of several uracil-DNA glycosylases. One important function of uracil-DNA glycosylases is to prevent mutagenesis by eliminating uracil from DNA molecules by cleaving the N-glycosylic bond and initiating the base-excision repair (BER) pathway. Uracil bases occur from cytosine deamination or misincorporation of dUMP residues. Alternative promoter usage and splicing of this gene leads to two different isoforms: the mitochondrial UNG1 and the nuclear UNG2. The UNG2 term was used as a previous symbol for the CCNO gene (GeneID 10309), which has been confused with this gene, in the literature and some databases. [provided by RefSeq, Nov 2010]
Function	Excises uracil residues from the DNA which can arise as a result of misincorporation of dUMP residues by DNA polymerase or due to deamination of cytosine. [UniProt]
Calculated Mw	35 kDa
PTM	Isoform 1 is processed by cleavage of a transit peptide.

Images



ARG56937 anti-UNG antibody [k1C12] ICC/IF image

Immunofluorescence: HeLa cells stained with ARG56937 anti-UNG antibody [k1C12] (green) at 1:100 dilution. DAPI was stained the cell nucleus (blue).



ARG56937 anti-UNG antibody [k1C12] WB image

Western blot: 40 µg of HeLa, Jurkat, MCF7, K562, 293T, HepG2, A549, SK-OV-3 and PC3 cell lysates stained with ARG56937 anti-UNG antibody [k1C12] at 1:1000 dilution.