

Store at
-20C
#43584**APOBEC3G (D9C6Z) Rabbit mAb**

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H	Endogenous	40	Rabbit IgG	#Q9HC16	60489

Product Usage Information**Application**

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

APOBEC3G (D9C6Z) Rabbit mAb recognizes endogenous levels of total APOBEC3G protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly255 of human APOBEC3G protein.

Background

APOBEC3G, a single-strand DNA deaminase that converts deoxycytidine to deoxyuridine (1-3), is a cellular restriction factor blocking the replication of retroviruses (3). It suppresses the replication of human immunodeficiency virus-1 (HIV-1) in T-cells by being packaged into progeny virions and deaminating cytosine to uracil in the nascent minus-strand viral DNA, leading to the accumulation of mutations in the viral genome (1-4). The HIV-1 virion infectivity factor (Vif) inhibits APOBEC3G activity by preventing its incorporation into progeny virions (4,5). In addition, Vif targets APOBEC3G for ubiquitination and subsequent degradation (5).

Background References

1. Sheehy, A.M. et al. (2002) *Nature* 418, 646-50.
2. Mangeat, B. et al. (2003) *Nature* 424, 99-103.
3. Harris, R.S. et al. (2003) *Cell* 113, 803-9.
4. Mariani, R. et al. (2003) *Cell* 114, 21-31.
5. Sheehy, A.M. et al. (2003) *Nat Med* 9, 1404-7.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human

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