

XPC (D1M5Y) Rabbit mAb

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Applications: W, IP, IF-IC	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 120	Source/Isotype: Rabbit IgG	UniProt ID: #Q01831	Entrez-Gene Id: 7508
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Product Usage Information**Application**

Western Blotting
Immunoprecipitation
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:100
1:400

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

XPC (D1M5Y) Rabbit mAb recognizes endogenous levels of total XPC protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human XPC protein.

Background

Nucleotide excision repair (NER) is a process by which cells identify and repair DNA lesions resulting from chemical or radiation exposure (1). XPC forms a complex with HR23B (2) that acts as a damage sensor due to its high affinity for geometry distorting DNA lesions. This complex localizes to sites of DNA damage and recruits the remaining members of the preincision complex necessary for initiation of NER (3). XPC is one of eight NER proteins (XPA-G, XPV) where defects result in Xeroderma pigmentosum, a disease characterized by sunlight sensitivity, a predisposition to cancer of exposed tissue, and, in some instances, neurological defects (4).

Background References

1. Fuss, J.O. and Cooper, P.K. (2006) *PLoS Biol* 4, e203.
2. Masutani, C. et al. (1994) *EMBO J* 13, 1831-43.
3. Sugawara, K. et al. (1998) *Mol Cell* 2, 223-32.
4. DiGiovanna, J.J. and Kraemer, K.H. (2012) *J Invest Dermatol* 132, 785-96.

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 **IP:** Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: Human

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