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Product datasheet for UM500020CF

XPF (ERCC4) Mouse Monoclonal Antibody [Clone ID: UMAB20]

Product data:

Product Type:	Primary Antibodies
Clone Name:	UMAB20
Applications:	10k-ChIP, IF, IHC, WB
Recommended Dilution:	WB 1:500~2000, IF 1:100, FLOW 1:100, IHC1:500
Reactivity:	Human, Dog, Rat, Monkey, Mouse
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human XPF (NP_005227) produced in HEK293 cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	104.3 kDa
Gene Name:	ERCC excision repair 4, endonuclease catalytic subunit
Database Link:	NP_005227 Entrez Gene 50505 MouseEntrez Gene 304719 RatEntrez Gene 479842 DogEntrez Gene 712641 MonkeyEntrez Gene 2072 Human Q92889

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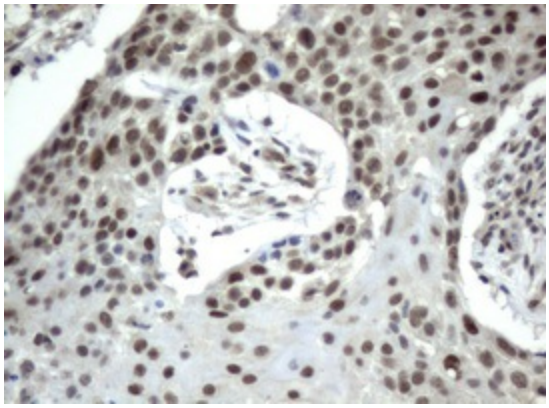
Background: The protein encoded by this gene forms a complex with ERCC1 and is involved in the 5' incision made during nucleotide excision repair. This complex is a structure specific DNA repair endonuclease that interacts with EME1. Defects in this gene are a cause of xeroderma pigmentosum complementation group F (XP-F), or xeroderma pigmentosum VI (XP6).

Synonyms: ERCC11; FANCQ; RAD1; XFEPS; XPF

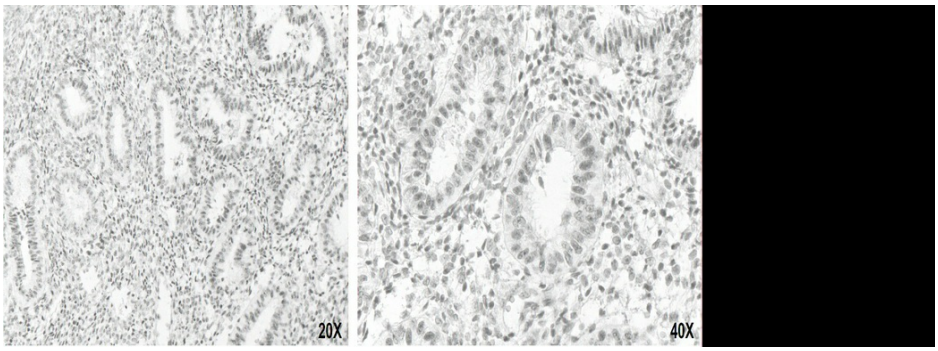
Protein Families: Druggable Genome

Protein Pathways: Nucleotide excision repair

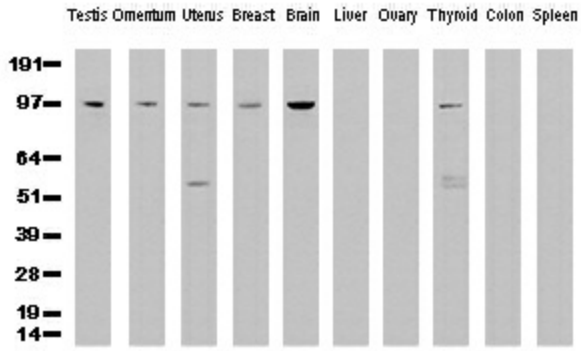
Product images:



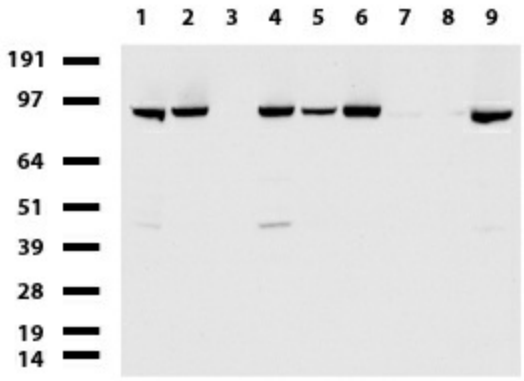
Immunohistochemical staining of paraffin-embedded Carcinoma of lung tissue using anti-XPF (UMAB20) mouse monoclonal antibody. ([UM500020], Dilution 1:50; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



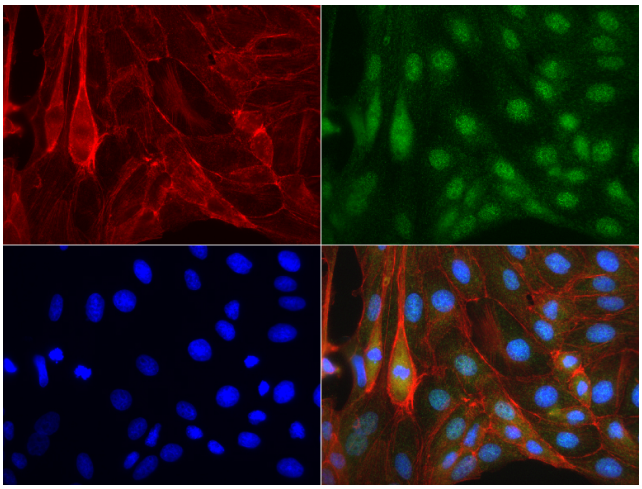
Immunohistochemical staining of paraffin-embedded human uterus using anti-XPF clone UMAB20 mouse monoclonal antibody ([UM500020]) 1:50 with Polink2 Broad HRP DAB detection kit; heat-induced epitope retrieval with TEE pH9.0 HIER buffer using pressure chamber for 3 minutes at 110C. Nuclear staining is seen in the epithiel cells of the uterine gland



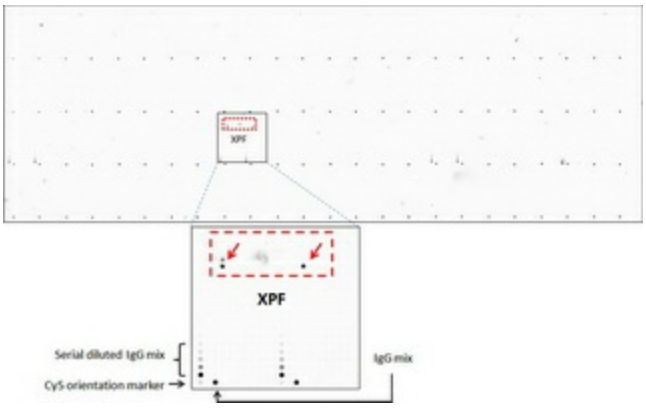
Western Blot analysis of 10 different human tissue lysates (10ug) by using anti-XPF monoclonal antibody (clone UMAB20, 1:500)



Western blot of cell lysates (35ug) from 9 different cell lines (1: HepG2, 2: HeLa, 3: SV-T2, 4: A549, 5: COS7, 6: Jurkat, 7: MDCK, 8: PC-12, 9: MCF7). Diluation: 1:500



Immunofluorescent staining of MDCK cells using anti-XPF mouse monoclonal antibody ([UM500020], green, 1:50). Actin filaments were labeled with Alexa Fluor® 594 Phalloidin (red), and nuclear with DAPI (blue).



OriGene overexpression protein microarray chip was immunostained with UltraMAB anti-XPF mouse monoclonal antibody (clone UMAB20). The positive reactive proteins are highlighted with two red arrows in the enlarged subarray. All the positive controls spotted in this subarray are also labeled for clarification. These data show that UltraMAB anti-XPF (UMAB20) very specifically recognizes XPF antigen on OriGene protein microarray chip.