

C17orf53 (7E1) Mouse mAb

Catalog # AP53514

Product Information

Primary Accession	Q8N3J3
Host	Mouse
Clonality	Monoclonal Antibody
Calculated MW	69771

Additional Information

Gene ID	78995
Other Names	C17orf53; Chromosome 17 open reading frame 53; CQ053_HUMAN; FLJ11594; Hypothetical protein LOC78995; MGC3130; Uncharacterized protein C17orf53.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

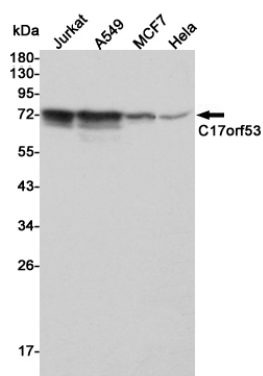
Name	HROB (HGNC:28460)
Synonyms	C17orf53
Function	DNA-binding protein involved in homologous recombination that acts by recruiting the MCM8-MCM9 helicase complex to sites of DNA damage to promote DNA repair synthesis (PubMed: 31467087). A C-terminal region including the OB-fold stimulates the helicase activity of MCM8- MCM9 probably by altering its conformation (PubMed: 37535404).
Cellular Location	Nucleus. Chromosome. Note=Localized to the sites of DNA damage.

Background

Swiss-Prot Acc.Q8N3J3.C17orf53 (chromosome 17 open reading frame 53) is a 647 amino acid protein that is encoded by a gene mapping to human chromosome 17. Chromosome 17 makes up over 2.5% of the human genome with about 81 million bases encoding over 1,200 genes. Two key tumor suppressor genes are associated with chromosome 17, namely, p53 and BRCA1. Tumor suppressor p53 is necessary for maintenance of cellular genetic integrity by moderating cell fate through DNA repair versus cell death. Malfunction or loss of p53 expression is associated with malignant cell growth and Li-Fraumeni syndrome. Like p53, BRCA1 is directly involved in DNA repair, specifically it is recognized as a genetic determinant of early onset breast cancer and predisposition to cancers of the ovary, colon, prostate gland and fallopian tubes. Chromosome 17 is also linked to neurofibromatosis, a condition characterized by neural and epidermal lesions, and dysregulated Schwann cell growth. Alexander disease, Birt-Hogg-Dube syndrome and

Canavan disease are also associated with chromosome 17.

Images



Western blot detection of C17orf53 in Jurkat,A549,MCF7 and HeLa cell lysates using C17orf53 mouse mAb (1:1000 diluted).Predicted band size:70KDa.Observed band size:70KDa.

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