

GEN1 Rabbit mAb

Catalog No: #52305

Package Size: #52305-1 50ul #52305-2 100ul

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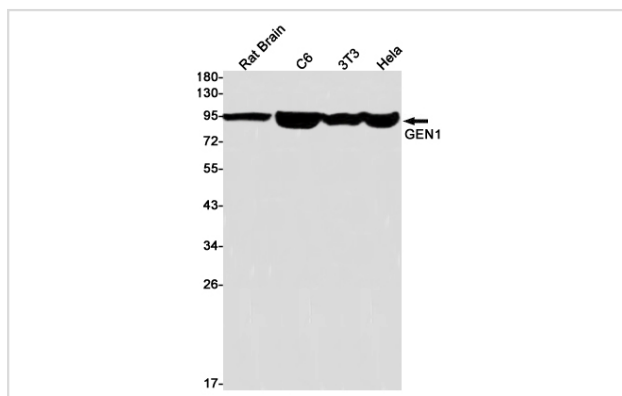
Description

Product Name	GEN1 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	S09-1B8
Isotype	Rabbit IgG
Purification	Affinity Purified
Applications	WB
Species Reactivity	Human,Rat
Immunogen Description	A synthetic peptide of human GEN1
Conjugates	Unconjugated
Modification	Unmodification
Other Names	Gen
Accession No.	Swiss-Prot:Q17RS7GeneID:348654
Uniprot	Q17RS7
GeneID	348654
Calculated MW	Calculated MW: 103 kDa; Observed MW: 103 kDa
Concentration	0.3 mg/ml
Formulation	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Application Details

WB: 1/1000

Images



Western blot detection of GEN1 in Rat Brain,C6,3T3,Hela cell lysates using GEN1 Rabbit mAb(1:1000 diluted).Predicted band size:103kDa.Observed band size:103kDa.

Background

Swiss-Prot Acc.Q17RS7.Endonuclease which resolves Holliday junctions (HJs) by the introduction of symmetrically related cuts across the junction point, to produce nicked duplex products in which the nicks can be readily ligated. Four-way DNA intermediates, also known as Holliday junctions, are formed during homologous recombination and DNA repair, and their resolution is necessary for proper chromosome segregation (PubMed:19020614, PubMed:26682650). Cleaves HJs by a nick and counter-nick mechanism involving dual coordinated incisions that lead to the formation of ligatable nicked duplex products. Cleavage of the first strand is rate limiting, while second strand cleavage is rapid. Largely monomeric, dimerizes on the HJ and the first nick occurs upon dimerization at the junction (PubMed:26578604). Efficiently cleaves both single and double HJs contained within large recombination intermediates. Exhibits a weak sequence preference for incision between two G residues that reside in a T-rich region of DNA (PubMed:28049850). Has also endonuclease activity on 5'-flap and replication fork (RF) DNA substrates (PubMed:26578604).

Note: This product is for in vitro research use only