Product Datasheet

RAD50 Antibody

Catalog No: #31264

Package Size: #31264-1 50ul #31264-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	RAD50 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Applications	ELISA WB IHC
Species Reactivity	Hu Ms
Specificity	The antibody detects endogenous level of total RAD50 protein.
Immunogen Type	Peptide
Immunogen Description	Synthetic peptide corresponding to a region derived from 325-339 amino acids of Human RAD50 homolog (S. cerevisiae)
Target Name	RAD50
Other Names	RAD50 homolog (S. cerevisiae), NBSLD, RAD502, hRad50
Accession No.	Swiss-Prot:Q92878Gene ID:10111;
Uniprot	Q92878
GeneID	10111;
Formulation	Rabbit IgG in pH7.4 PBS, 0.05% NaN3, 40% Glycerol.
Storage	Store at -20°C/1 year

Application Details

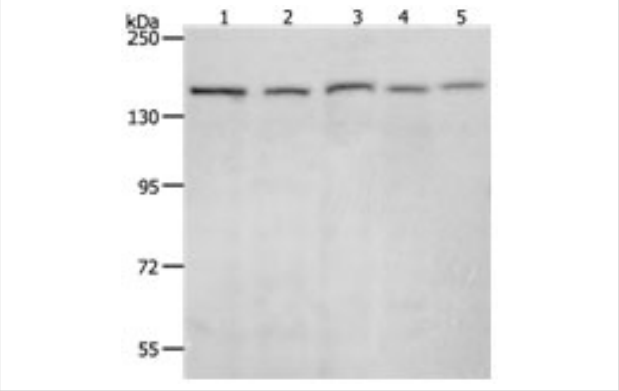
Predicted MW: 154kd

ELISA: 1:2000-1:10000

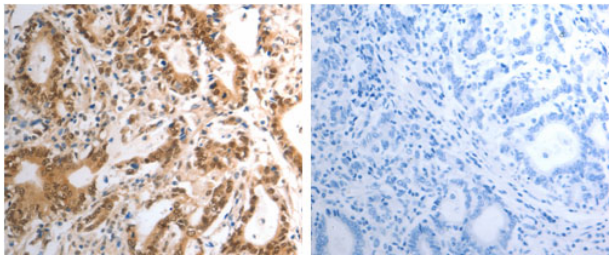
Western blotting: 1:500-1:2000

Immunohistochemistry: 1:50-1:200

Images



Gel: 8%SDS-PAGE
Lane1: 293T cell lysate
Lane2: Hela cell lysate
Lane3: K562 cell lysate
Lane4: NIH/3T3 cell lysate
Lane5: RAW264.7 cell lysate
Lysates: 40 ug per lane
Primary antibody: 1/900 dilution
Secondary antibody: Goat anti Rabbit IgG - H&L (HRP) at 1/10000 dilution
Exposure time: 5 minutes



The image on the left is immunohistochemistry of paraffin-embedded human gastric cancer tissue using 31264 (RAD50 Antibody) at dilution 1/40, on the right is treated with the synthetic peptide.

Background

The protein encoded by this gene is highly similar to Saccharomyces cerevisiae Rad50, a protein involved in DNA double-strand break repair. This protein forms a complex with MRE11 and NBS1. The protein complex binds to DNA and displays numerous enzymatic activities that are required for nonhomologous joining of DNA ends. This protein, cooperating with its partners, is important for DNA double-strand break repair, cell cycle checkpoint activation, telomere maintenance, and meiotic recombination. Knockout studies of the mouse homolog suggest this gene is essential for cell growth and viability. Mutations in this gene are the cause of Nijmegen breakage syndrome-like disorder.

Note: This product is for in vitro research use only