

## BOP1 Antibody

Catalog No: #46933

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

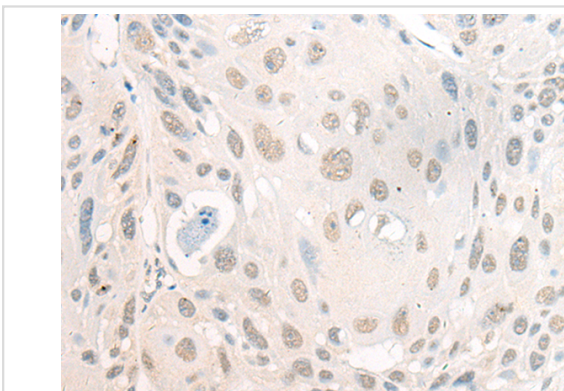
## Description

Product Name	BOP1 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antigen affinity purification
Applications	IHC
Species Reactivity	Hu
Specificity	The antibody detects endogenous levels of total BOP1 protein.
Immunogen Type	peptide
Immunogen Description	Synthetic peptide of human BOP1
Target Name	BOP1
Accession No.	Swiss-Prot#:Q14137 NCBI Gene ID:23246Gene Accssion:NP_056016
Uniprot	Q14137
GeneID	23246;
Concentration	1mg/ml
Formulation	Rabbit IgG in pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol.
Storage	Store at -20C

## Application Details

Immunofluorescence: 1: 20-100

## Images



The image is immunohistochemistry of paraffin-embedded Human esophagus cancer tissue using 46933(BOP1 Antibody) at dilution 1/30. (Original magnification: ?00)

## Background

BOP1(block of proliferation 1 protein) is a 746 amino acid highly conserved non-ribosomal protein that is involved in ribosome biogenesis. Truncation of the amino terminus of BOP1 leads to cell growth arrest in the G1 phase and specific inhibition of 28S and 5.8S rRNA synthesis, as well as a deficit in the cytosolic 60S ribosomal subunit. This suggests that BOP1 is involved in the formation of mature rRNAs and in the biogenesis of the 60S ribosomal subunit. BOP1 physically interacts with pescadillo (a protein involved in cell proliferation) and enables efficient incorporation of pescadillo into the nucleolar preribosomal complexes, thereby affecting rRNA maturation and the cell cycle. The BOP1-pescadillo complex is also necessary for

biogenesis of 60S ribosomal subunits. Dereglulation of BOP1 may lead to colorectal tumorigenesis.

---

Note: This product is for in vitro research use only