

## anti- RPS3 antibody

### Product Information

Catalog No.:	FNab07476
Size:	100µg
Form:	liquid
Purification:	Immunogen affinity purified
Purity:	≥95% as determined by SDS-PAGE
Host:	Rabbit
Clonality:	polyclonal
Clone ID:	None
IsoType:	IgG
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20°C for 12 months (Avoid repeated freeze / thaw cycles.)

### Background

Involved in translation as a component of the 40S small ribosomal subunit(PubMed:8706699). Has endonuclease activity and plays a role in repair of damaged DNA(PubMed:7775413). Cleaves phosphodiester bonds of DNAs containing altered bases with broad specificity and cleaves supercoiled DNA more efficiently than relaxed DNA(PubMed:15707971). Displays high binding affinity for 7,8-dihydro-8-oxoguanine(8-oxoG), a common DNA lesion caused by reactive oxygen species(ROS)(PubMed:14706345). Has also been shown to bind with similar affinity to intact and damaged DNA(PubMed:18610840). Stimulates the N-glycosylase activity of the base excision protein OGG1(PubMed:15518571). Enhances the uracil excision activity of UNG1(PubMed:18973764). Also stimulates the cleavage of the phosphodiester backbone by APEX1(PubMed:18973764). When located in the mitochondrion, reduces cellular ROS levels and mitochondrial DNA damage(PubMed:23911537). Has also been shown to negatively regulate DNA repair in cells exposed to hydrogen peroxide(PubMed:17049931). Plays a role in regulating transcription as part of the NF-kappa-B p65-p50 complex where it binds to the RELA/p65 subunit, enhances binding of the complex to DNA and promotes transcription of target genes(PubMed:18045535). Represses its own translation by binding to its cognate mRNA(PubMed:20217897). Binds to and protects TP53/p53 from MDM2-mediated ubiquitination(PubMed:19656744). Involved in spindle formation and chromosome movement during mitosis by regulating microtubule polymerization(PubMed:23131551). Involved in induction of apoptosis through its role in activation of CASP8(PubMed:14988002). Induces neuronal apoptosis by interacting with the E2F1 transcription factor and acting synergistically

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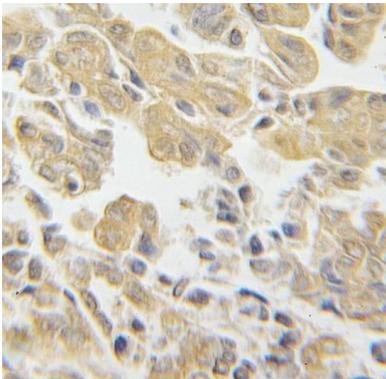
with it to up-regulate pro-apoptotic proteins BCL2L1/BIM and HRK/Dp5(PubMed:20605787). Interacts with TRADD following exposure to UV radiation and induces apoptosis by caspase-dependent JNK activation(PubMed:22510408).

### Immunogen information

Immunogen: ribosomal protein S3  
Synonyms: None  
Observed MW: 26.7 kDa  
UniprotID : P23396

### Application

Reactivity: Human, Mouse, Rat  
Tested Application: ELISA, WB, IHC  
Recommended dilution: WB: 1:500-1:2000; IHC: 1:20-1:200  
Image:



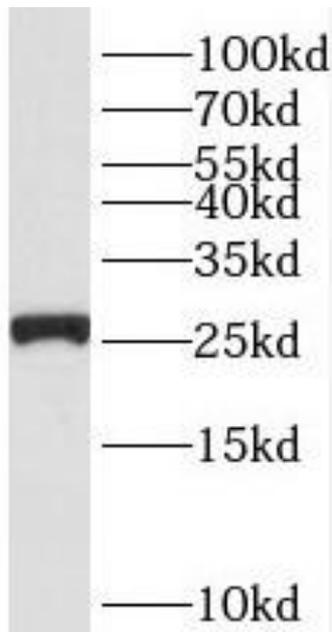
Immunohistochemistry of paraffin-embedded human ovary tumor using FNab07476(RPS3 antibody) at dilution of 1:50

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mouse brain tissue were subjected to SDS PAGE followed by western blot with FNab07476(RPS3 antibody) at dilution of 1:1000

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