NUPR1 Rabbit pAb

CatalogNo: YT8077

Key Features

Host Species	Reactivity	Applications
• Rabbit	• Human,Mouse,Rat	• IHC,WB

MW	Isotype
• 9kD (Calculated)	• IgG

Recommended Dilution Ratios

WB 1:500-2000
IHC 1:50-200

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol,0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	Synthesized peptide derived from human C-ternal NUPR1
Specificity	This antibody detects endogenous levels of NUPR1 at Human, Mouse,Rat

Target Information

Gene name	NUPR1 COM1

Protein Name Nuclear protein 1 (Candidate of metastasis 1) (Protein p8)

Organism	Gene ID	UniProt ID
Human	26471;	O60356;
Mouse	56312;	Q9WTK0;
Rat	113900;	O54842;

Cellular Localization Nucleus . Cytoplasm . Cytoplasm, perinuclear region .

Tissue specificity Widely expressed, with high levels in liver, pancreas, prostate, ovary, colon, thyroid, spinal cord, trachea and adrenal gland, moderate levels in heart, placenta, lung, skeletal muscle, kidney, testis, small intestine, stomach and lymph node, and low levels in brain, spleen, thymus and bone marrow. Not detected in peripheral blood leukocytes.

Function Transcription regulator that converts stress signals into a program of gene expression that empowers cells with resistance to the stress induced by a change in their microenvironment. Thereby participates in regulation of many process namely cell-cycle, apoptosis, autophagy and DNA repair responses . Controls cell cycle progression and protects cells from genotoxic stress induced by doxorubicin through the complex formation with TP53 and EP300 that binds CDKN1A promoter leading to transcriptional induction of CDKN1A . Protects pancreatic cancer cells from stress-induced cell death by binding the RELB promoter and activating its transcription, leading to IER3 transactivation . Negatively regulates apoptosis through interaction with PTMA . Inhibits autophagy-induced apoptosis in cardiac cells through FOXO3 interaction, inducing cytoplasmic translocation of FOXO3 thereby preventing the FOXO3 association with the pro-autophagic BNIP3 promoter . Inhibits cell growth and facilitates programmed cell death by apoptosis after adriamycin-induced DNA damage through transactivation of TP53 (By similarity). Regulates methamphetamine-induced apoptosis and autophagy through DDIT3-mediated endoplasmic reticulum stress pathway (By similarity). Participates in DNA repair following gamma-irradiation by facilitating DNA access of the transcription machinery through interaction with MSL1 leading to inhibition of histone H4' Lys-16' acetylation (H4K16ac) . Coactivator of PAX2 transcription factor activity, both by recruiting EP300 to increase PAX2 transcription factor activity and by binding PAXIP1 to suppress PAXIP1-induced inhibition on PAX2 . Positively regulates cell cycle progression through interaction with COPS5 inducing cytoplasmic translocation of CDKN1B leading to the CDKN1B degradation . Coordinates, through its interaction with EP300, the assiociation of MYOD1, EP300 and DDX5 to the MYOG promoter, leading to inhibition of cell-cycle progression and myogenic differentiation promotion . Negatively regulates beta cell proliferation via inhibition of cell-cycle regulatory genes expression through the suppression of their promoter activities (By similarity). Also required for LHB expression and ovarian maturation (By similarity). Exacerbates CNS inflammation and demyelination upon cuprizone treatment (By similarity).

Validation Data

Contact information

Orders: order@immunoway.com
Support: tech@immunoway.com
Telephone: 877-594-3616 (Toll Free), 408-747-0185
Website: http://www.immunoway.com
Address: 2200 Ringwood Ave San Jose, CA 95131 USA

Please scan the QR code to access additional product information:
NUPR1 Rabbit pAb