SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-BRD8 antibody

Catalog Number: SL6290R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	BRD8
Immunogen:	KLH conjugated synthetic peptide derived from human BRD8: 331-430/1235
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Rat(predicted:Human,Mouse,Dog,Pig,Cow,Horse,Sheep)
Predicted MW.:	135kDa
Subcellular Location:	The nucleus
Background:	The protein encoded by this gene interacts with thyroid hormone receptor in a ligand-dependent manner and enhances thyroid hormone-dependent activation from thyroid response elements. This protein contains a bromodomain and is thought to be a nuclear receptor coactivator. Three alternatively spliced transcript variants that encode distinct isoforms have been identified. **Function:** BRD8 may act as a coactivator during transcriptional activation by hormone-activated nuclear receptors (NR). Isoform 2 stimulates transcriptional activation by AR/DHTR, ESR1/NR3A1, RXRA/NR2B1 and THRB/ERBA2. At least isoform 1 and isoform 2 are components of the NuA4 histone acetyltransferase (HAT) complex which is involved in transcriptional activation of select genes principally by acetylation of nucleosomal histone H4 and H2A.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	This modification may both alter nucleosome - DNA interactions and promote interaction of the modified histones with other proteins which positively regulate transcription. This complex may be required for the activation of transcriptional programs associated with oncogene and proto-oncogene mediated growth induction, tumor suppressor mediated growth arrest and replicative senescence, apoptosis, and DNA repair. NuA4 may also play a direct role in DNA repair when recruited to sites of DNA damage. It interacts with MYC and adenovirus E1A protein. **Subunit:** Component of the NuA4 histone acetyltransferase complex which contains the catalytic subunit KAT5/TIP60 and the subunits EP400, TRRAP/PAF400, BRD8/SMAP, EPC1, DMAP1/DNMAP1, RUVBL1/TIP49, RUVBL2, ING3, actin, ACTL6A/BAF53A, MORF4L1/MRG15, MORF4L2/MRGX, MRGBP, YEATS4/GAS41, VPS72/YL1 and MEAF6. The NuA4 complex interacts with MYC and the adenovirus E1A protein. Component of a NuA4-related complex which contains EP400, TRRAP/PAF400, SRCAP, BRD8/SMAP, EPC1, DMAP1/DNMAP1, RUVBL1/TIP49, RUVBL2, actin, ACTL6A/BAF53A, VPS72 and YEATS4/GAS41. BRD8 isoform 2 interacts with RXRA/NR2B1 and THRB/ERBA2 **Subcellular Location:** Nucleus. **Tissue Specificity:** Expressed in adipose tissue, brain, heart, kidney, liver, lung, pancreas, placenta and skeletal muscle. **Similarity:** Contains 2 bromo domains. **Database links:** **Entrez Gene:** 10902 Human **Entrez Gene:** 78656 Mouse **Entrez Gene:** 291691 Rat Omim: 602848 Human **SwissProt:** Q9H0E9 Human **SwissProt:** Q8R3B7 Mouse **SwissProt:** Q5TLG7 Rat **Unigene:** 519337 Human **Unigene:** 98723 Rat

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