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**[ Marker Primary Antibody ]**

# Rabbit Anti-NR1D1/Biotin Conjugated antibody

**Catalog Number: SL20222R-Bio**

**FOR RESEARCH USE ONLY**

**[ DATASHEET ]**

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|---|---|
| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Clonality:** | Polyclonal |
| **Target:** | Anti-NR1D1/Biotin |
| **Immunogen:** | KLH conjugated synthetic peptide derived from human NR1D1 |
| **Purification:** | affinity purified by Protein A |
| **Concentration:** | 1mg/ml |
| **Storage:** | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |
| **Applications:** | IHC-P=1:100-500<br>IHC-F=1:100-500<br>IF=1:100-500<br>Flow-Cyt=1ug/test<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Reactivity:** | Human,Rat(predicted:Mouse,Dog,Horse,Rabbit) |
| **Background:** | background: NR1D1, a NR1 Thyroid Hormone-Like Receptor, is encoded by the same genomic locus as, but transcribed from the opposite strand of, Thyroid Hormone Receptor Alpha (TR Alpha). NR1D1 is a target of Nuclear Receptor ROR Alpha and a transcription regulator that has been shown to affect myocyte differentiation, adipogenesis, and lipoprotein metabolism. Mice lacking NR1D1 show abnormal postnatal cerebellar development. NR1D1 expression has been documented in human skeletal muscle and a variety of mouse and rat tissues. ESTs have been isolated from human tissue libraries, including cancerous adrenal, blood, brain, breast, colon, duodenum, fetus, head/neck, kidney, lung, skeletal muscle, skin, synovium, uterus, normal brain, breast, colon, eye, heart, pancreas, pituitary, prostate, skeletal muscle, skin, testis and thyroid. |

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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| | **Function:** Functions as a constitutive transcriptional repressor. In collaboration with SP1, activates GJA1 transcription. Possible receptor for triiodothyronine.<br>**Subunit:** Interacts with C1D and NR2E3. Interacts with SP1.<br>**Subcellular Location:** Nucleus (Potential).<br>**Tissue Specificity:** Expressed in all tissues and cell lines examined. Expressed at high levels in some squamous carcinoma cell lines.<br>**Similarity:** Belongs to the nuclear hormone receptor family. NR1 subfamily. Contains 1 nuclear receptor DNA-binding domain.<br>**Database links:**<br>**Entrez Gene:** 9572 Human<br>**Entrez Gene:** 768225 Cow<br>**Entrez Gene:** 217166 Mouse<br>**Entrez Gene:** 252917 Rat<br>Omim: 602408 Human<br>**SwissProt:** Q08E02 Cow<br>**SwissProt:** P20393 Human<br>**SwissProt:** Q3UV55 Mouse<br>**SwissProt:** Q63503 Rat<br>**Unigene:** 592130 Human<br>**Unigene:** 724 Human<br>**Unigene:** 390397 Mouse<br>**Unigene:** 29848 Rat<br>Important<br>**Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |

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