SunLong Biotech Co.,LTD
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**[ Primary Antibody ]**

# Rabbit Anti-HCCS antibody

**Catalog Number: SL15424R**

**FOR RESEARCH USE ONLY**

**[ DATASHEET ]**

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|---|---|
| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Clonality:** | Polyclonal |
| **Target:** | HCCS |
| **Immunogen:** | KLH conjugated synthetic peptide derived from human HCCS: 51-150/268 |
| **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<br>IHC-F=1:100-500<br>IF=1:100-500 （Paraffin sections need antigen repair）<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Reactivity:** | Mouse,Rat(predicted:Human,Dog,Horse) |
| **Predicted MW.:** | 31kDa |
| **Subcellular Location:** | cytoplasmic |
| **Background:** | HCCS is a 79 amino acid protein that may act as a tumor suppressor, promoting the apoptosis of cancer cells. Expressed in leukocytes, lung, spleen, liver, heart, kidney, muscle and uterine cervix, HCCS-1 is down-regulated in cervical cancers. The gene encoding HCCS-1 maps to human chromosome 15q25.1. Encoding more than 700 genes, chromosome 15 is made up of approximately 106 million base pairs and comprises about 3% of the human genome. Angelman and Prader-Willi syndromes are associated with loss of function or deletion of genes in the 15q11-q13 region. Tay-Sachs disease is a lethal disorder associated with mutations of the HEXA gene, which is encoded by chromosome 15. Marfan syndrome is associated with chromosome 15 through the FBN1 gene.<br>**Function:** Links covalently the heme group to the apoprotein of cytochrome c (By similarity). |

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|---|---|
| | **Subcellular Location:** Mitochondrion inner membrane (Potential).<br>DISEASE: Microphthalmia, syndromic, 7 (MCOPS7) [MIM:309801]: A disease characterized by unilateral or bilateral microphthalmia, linear skin defects in affected females, and in utero lethality for males. Skin defects are limited to the face and neck, consisting of areas of aplastic skin that heal with age to form hyperpigmented areas. Additional features in female patients include agenesis of the corpus callosum, sclerocornea, chorioretinal abnormalities, infantile seizures, congenital heart defect, mental retardation, and diaphragmatic hernia.<br>Microphthalmia is a disorder of eye formation, ranging from small size of a single eye to complete bilateral absence of ocular tissues (anophthalmia). In many cases, microphthalmia/anophthalmia occurs in association with syndromes that include non-ocular abnormalities. Note=The disease is caused by mutations affecting the gene represented in this entry.<br>**Similarity:** Belongs to the cytochrome c-type heme lyase family.<br>Contains 2 HRM (heme regulatory motif) repeats.<br>**Database links:**<br>**Entrez Gene:** 3052 Human<br>**Entrez Gene:** 15159 Mouse<br>**Entrez Gene:** 317444 Rat<br>Omim: 300056 Human<br>**SwissProt:** P53701 Human<br>**SwissProt:** P53702 Mouse<br>**Unigene:** 211571 Human<br>**Unigene:** 284033 Mouse<br>**Unigene:** 162316 Rat |

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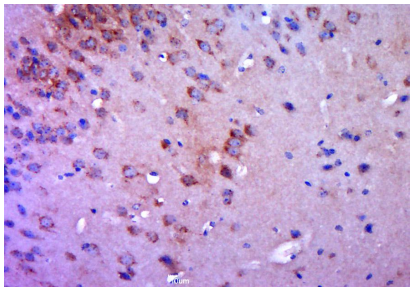
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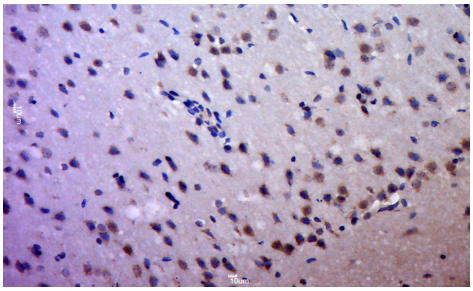
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## [ VALIDATION IMAGES ]



Paraformaldehyde-fixed, paraffin embedded (mouse brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (HCCS) Polyclonal Antibody, Unconjugated (SL15424R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Holocytochrome c type synthase; HCCS) Polyclonal Antibody, Unconjugated (SL15424R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

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