

# HECA Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP59353

## Product Information

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<b>Application</b>	WB, IHC-P, IHC-F, IF, E
<b>Primary Accession</b>	<a href="#">Q9UBI9</a>
<b>Reactivity</b>	Rat, Pig, Dog, Bovine
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	58837
<b>Physical State</b>	Liquid
<b>Immunogen</b>	KLH conjugated synthetic peptide derived from human HECA
<b>Epitope Specificity</b>	231-330/543
<b>Isotype</b>	IgG
<b>Purity</b>	affinity purified by Protein A
<b>Buffer</b>	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
<b>Important Note</b>	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
<b>Background Descriptions</b>	HECA, also known as headcase homolog, HDC, HDCL or HHDC, is a 543 amino acid mammalian homolog of the Drosophila headcase protein, a highly basic, cytoplasmic peptide that plays a role in mitotic re-entry during adult morphogenesis. Expressed in a variety of tissues with highest expression in thymus, spleen and heart, HECA is thought to play a role in the development of epithelial tube networks in lung tissue and may also be involved in the pathogenesis of lung cancer. The gene encoding HECA maps to human chromosome 6, which contains 170 million base pairs and comprises nearly 6% of the human genome. Deletion of a portion of the q arm of chromosome 6 is associated with early onset intestinal cancer, suggesting the presence of a cancer susceptibility locus. Additionally, Porphyria cutanea tarda, Parkinson's disease, Stickler syndrome and a susceptibility to bipolar disorder are all associated with genes that map to chromosome 6.

## Additional Information

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<b>Gene ID</b>	51696
<b>Other Names</b>	Headcase protein homolog, hHDC, HECA, HDC
<b>Target/Specificity</b>	Expressed in all tissues examined. Highest levels are in the spleen, thymus, peripheral blood and heart. Lowest in the kidney and pancreas.
<b>Dilution</b>	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:50-200,ELISA=1:5000-10000
<b>Format</b>	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce

## Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

## Protein Information

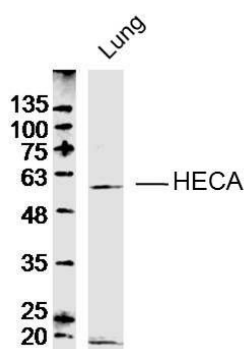
**Name** HECA

**Synonyms** HDC

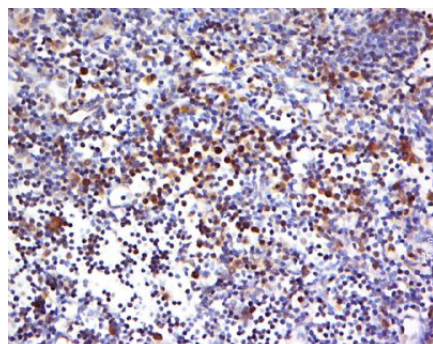
**Function** May play an important role in some human cancers. May be part of the regulatory mechanism in the development of epithelial tube networks such as the circulatory system and lungs.

**Tissue Location** Expressed in all tissues examined. Highest levels are in the spleen, thymus, peripheral blood and heart. Lowest in the kidney and pancreas.

## Images



Sample: Lung (Rat) Lysate at 40 ug  
Primary: Anti-HECA (AP59353) at 1/300 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 59 kD  
Observed band size: 59 kD



Tissue/cell: rat pancreas tissue; 4%  
Paraformaldehyde-fixed and paraffin-embedded;  
Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;  
Incubation: Anti-HECA Polyclonal Antibody, Unconjugated(AP59353) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.