

HIAT1 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58843**Specification****HIAT1 Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	O96MC6
Reactivity	Rat, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	53 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human HIAT1
Epitope Specificity	1-50/490
Purity	
affinity purified by Protein A	
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane; Multi-pass membrane protein (Potential).
SIMILARITY	Belongs to the major facilitator superfamily.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

The Major facilitator superfamily consists of presumed carbohydrate transporters with 10-12 membrane-spanning domains. Belonging to the facilitator superfamily, HIAT1 is a 490 amino acid multi-pass membrane protein that may function as a sugar transporter and is expressed in adult and embryonic brain. The HIAT1 gene was first observed while analyzing for active genes in neonatal mouse hippocampus. The gene encoding HIAT1 maps to human chromosome 1, the largest human chromosome spanning about 260 million base pairs and making up 8% of the human genome. There are about 3,000 genes on chromosome 1, and considering the great number of genes there are also a large number of diseases associated with chromosome 1. Notably, the rare aging disease Hutchinson-Gilford progeria is associated with the LMNA gene which encodes lamin A. Stickler syndrome, Parkinsons, schizophrenia, familial adenomatous polyposis, Gaucher disease and Usher syndrome are also associated with chromosome 1.

HIAT1 Polyclonal Antibody - Additional Information**Gene ID** 64645**Other Names**

Hippocampus abundant transcript 1 protein {ECO:0000312|HGNC:HGNC:23363}, Major facilitator superfamily domain-containing 14A {ECO:0000312|HGNC:HGNC:23363}, Putative tetracycline transporter-like protein, MFSD14A (<a

href="http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=23363"
target="_blank">HGNC:23363)

Dilution

WB~~1:1000<br \><span class
="dilution_IHC-P">IHC-P~~N/A<br \><span class
="dilution_IHC-F">IHC-F~~N/A<br \><span class
="dilution_IF">IF~~1:50~200<br \>ICC~~N/A<br
\>E~~N/A

Format

0.01M TBS(pH7.4), 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.

HIAT1 Polyclonal Antibody - Protein Information

Name MFSD14A ([HGNC:23363](#))

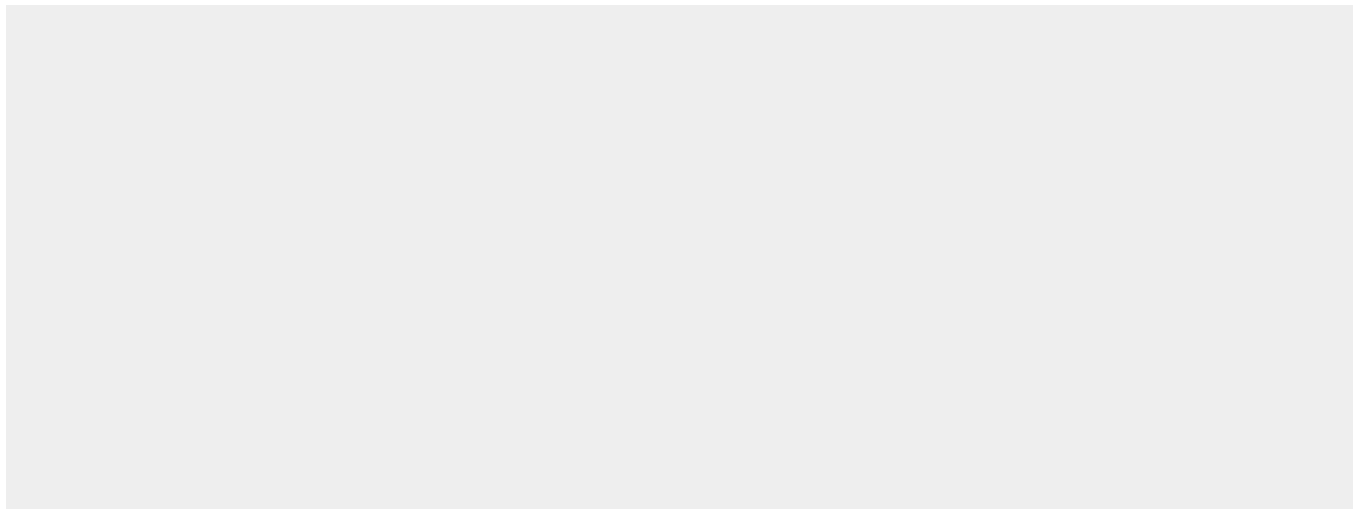
Cellular Location

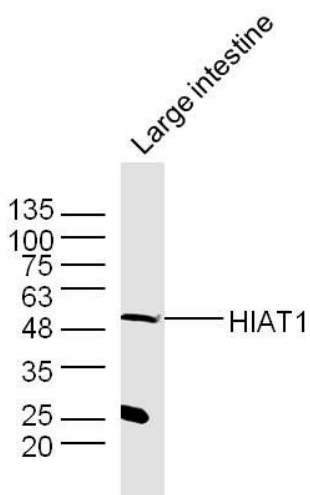
Membrane; Multi-pass membrane protein

HIAT1 Polyclonal Antibody - Protocols

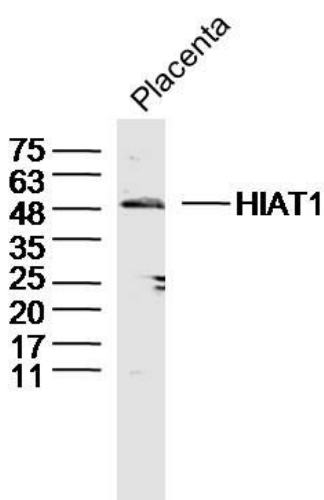
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

HIAT1 Polyclonal Antibody - Images



Sample: Large intestine (Mouse) Lysate at 40 ug
Primary: Anti-HIAT1 (bs-8042R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 53 kD
Observed band size: 53 kD



Sample: Placenta (Mouse) Lysate at 40 ug
Primary: Anti-HIAT1 (bs-8042R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 53kD
Observed band size: 50kD