Datasheet: 0100-0074

Description:	MOUSE ANTI HUMAN CRANIN
Specificity:	CRANIN
Other names:	DYSTROGLYCAN
Format:	Ascites
Product Type:	Monoclonal Antibody
Clone:	6C1 (4G2)
Isotype:	IgM
Quantity:	0.1 ml

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.abdserotec.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Frozen	▪			1/1 - 1/50
Immunohistology - Paraffin			▪	
ELISA	▪			
Western Blotting		▪		

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using the appropriate negative/positive controls.

Target Species

Human

Species Cross Reactivity

Reacts with: Mouse, Xenopus, Chicken, Sheep, Rat
N.B. Antibody reactivity and working conditions may vary between species.

Product Form

Ascites - liquid

Preservative Stabilisers

None present

Immunogen

A synthetic peptide corresponding to amino acids 572-604 of human cranin (dystroglycan).

External Database Links

UniProt:
Q14118 DAG1_HUMAN Related reagents

Entrez Gene:
1605 DAG1 Related reagents

Specificity

0100-0074 recognises an extracellular region close to the C terminal end of the alpha subunit of human cranin, also known as dystroglycan. Cranin is expressed in brain and many other tissues, it binds laminin with high affinity in a calcium dependent manner. It appears to be important in maintaining normal muscle integrity. Loss of cranin from the muscle surface may be one of the primary events leading to muscle injury in congenital muscular dystrophies, it may also play a role in the cognitive deficits often seen in such conditions.

Histology Positive Control Tissue

Neurons, astrocytes, smooth muscle, fibroblasts or epithelial cell lines.

References

1. Smalheiser, N. R. and Kim, E. (1995) Purification of cranin, a laminin binding membrane protein. Identity with

dystroglycan and reassessment of its carbohydrate moieties. J. Biol. Chem. 270: 15425-15433.
2. Smalheiser, N. R. and Schwartz, N.B. (1987) Cranin: a laminin-binding protein of cell membranes. Proc. Natl. Acad. Sci. U. S. A. 84: 6457-6461.

Storage	Store at -20°C only. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	12 months from date of despatch.
Health And Safety Information	Material Safety Datasheet Documentation #10194 available at: http://www.abdserotec.com/uploads/MSDS/10194.pdf
Regulatory	For research purposes only

North & South America Tel: +1 800 265 7376
Fax: +1 919 878 3751
Email: sales.us@abdserotec.com

Worldwide Tel: +44 1865 852 700
Fax: +44 1865 852 739
Email: sales@abdserotec.com

Europe Tel: 00800 2255 4223
Fax: 00800 2329 2223
Email: sales.eu@abdserotec.com

'M216959:120629'

Printed on 10 Oct 2012