

For Research Use Only

Aldolase C Monoclonal antibody

Catalog Number: 66120-1-Ig



Basic Information

Catalog Number: 66120-1-Ig	GenBank Accession Number: BC003613	Purification Method: Protein G purification
Size: 150ul, Concentration: 1040 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 230	CloneNo.: 5H7A5
Source: Mouse	Full Name: aldolase C, fructose-bisphosphate	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:50-1:500 IF 1:50-1:400
Isotype: IgG1	Calculated MW: 39 kDa	
Immunogen Catalog Number: AG6779	Observed MW: 39 kDa	

Applications

Tested Applications:

IF, IHC, WB, ELISA

Species Specificity:

human, mouse, rat, pig

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HeLa cells, human brain tissue, human heart tissue, HepG2 cells, K-562 cells, HSC-T6 cells, Pig brain tissue, Mouse brain tissue, rat cerebellum tissue, mouse cerebellum tissue

IHC : human liver cancer tissue, mouse brain tissue, mouse liver tissue

IF : HepG2 cells,

Background Information

Fructose-bisphosphate aldolase C (ALDOC) reversibly cleaves FBP and F1-P to glyceraldehyde 3-phosphate and dihydroxyacetone phosphate and is strongly expressed in mammalian brain together with ALDOA and is also present in the heart and spleen of some species (PMID:9363598). It is involved in glycolysis as an important enzyme. Phospholipase D2 and inositol 1,4,5-triphosphate interact with ALDOC in signal transduction. Meanwhile, the protein expression of ALDOC has been reported to be regulated in brain tumor, hepatomas, and lung cancer (PMID:21548097).

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

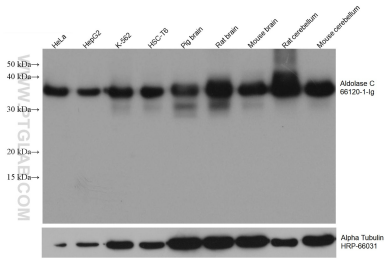
For technical support and original validation data for this product please contact:

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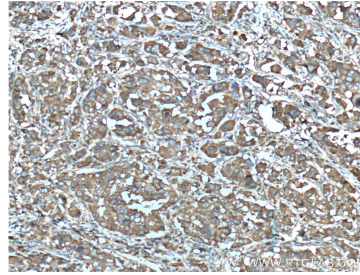
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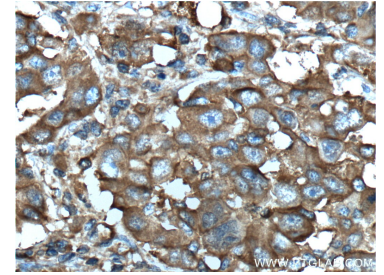
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 66120-1-Ig (Aldolase C antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Alpha Tubulin Monoclonal antibody (HRP-66031) as loading control.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66120-1-Ig (Aldolase C antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



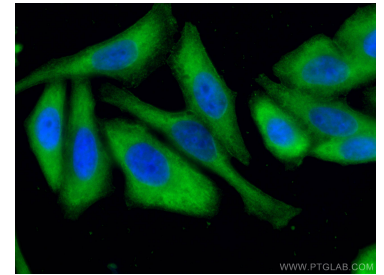
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66120-1-Ig (Aldolase C antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of HepG2 cells using 66120-1-Ig (Aldolase C antibody) at dilution of 1:50 and Rhodamine-Goat anti-Mouse IgG.



human heart tissue were subjected to SDS PAGE followed by western blot with 66120-1-Ig (Aldolase C antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using Aldolase C antibody (66120-1-Ig, Clone: 5H7A5) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).