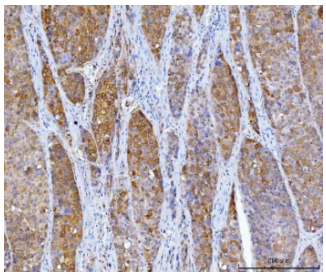
Homogentisate 1,2-dioxygenase Antibody / HGD [clone 2F11E1] (RQ6996)

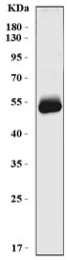
Catalog No.	Formulation	Size
RQ6996	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

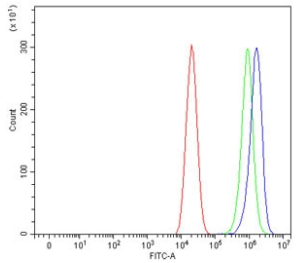
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b
Clone Name	2F11E1
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q93099
Localization	Cytoplasmic
Applications	Western blot: 0.5-1 ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This Homogentisate 1,2-dioxygenase antibody is available for research use only.



IHC staining of FFPE human liver cancer tissue with Homogentisate 1,2-dioxygenase antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of human HCCP cell lysate with Homogentisate 1,2-dioxygenase antibody. Predicted molecular weight ~50 kDa.



Flow cytometry testing of human Caco-2 cells with Homogentisate 1,2-dioxygenase antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Homogentisate 1,2-dioxygenase antibody.

Description

The HGD gene encodes homogentisate 1,2-dioxygenase (HGD), an enzyme involved in the catabolism of phenylalanine and tyrosine. This enzyme is involved in the catabolism of the amino acids tyrosine and phenylalanine. Mutations in this gene are the cause of the autosomal recessive metabolism disorder alkaptonuria. This gene is mapped to chromosome 3q21-q23 by a preliminary PCR screen of hamster/human somatic cell hybrid genomic DNA samples and by fluorescence in situ hybridization.

Application Notes

Optimal dilution of the Homogentisate 1,2-dioxygenase antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids D374-N445) was used as the immunogen for the Homogentisate 1,2-dioxygenase antibody.

Storage

After reconstitution, the Homogentisate 1,2-dioxygenase antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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