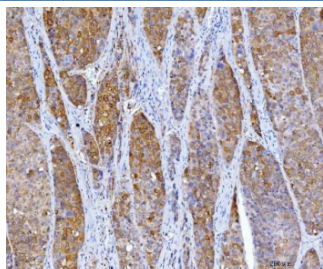


## Homogentisate 1,2-dioxygenase Antibody / HGD [clone 2F11E1] (RQ6996)

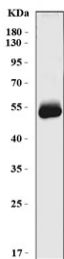
Catalog No.	Formulation	Size
RQ6996	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

**Bulk quote request**

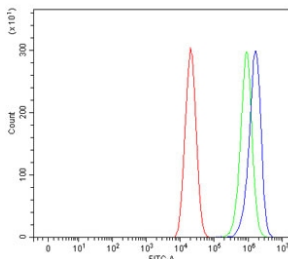
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Antigen affinity purified
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG2b
<b>Clone Name</b>	2F11E1
<b>Purity</b>	Antigen affinity purified
<b>Buffer</b>	Lyophilized from 1X PBS with 2% Trehalose
<b>UniProt</b>	Q93099
<b>Localization</b>	Cytoplasmic
<b>Applications</b>	Western Blot : 0.5-1 ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Flow Cytometry : 1-3ug/million cells
<b>Limitations</b>	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 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.