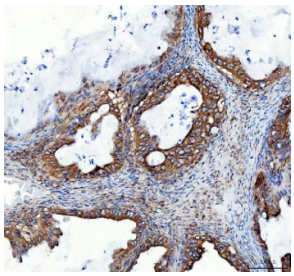
Heme Oxygenase 2 Antibody / HO-2 / HMOX2 (R31626)

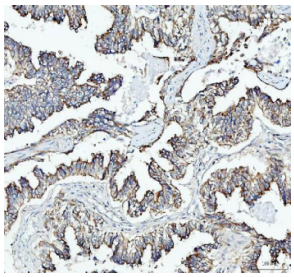
Catalog No.	Formulation	Size
R31626	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

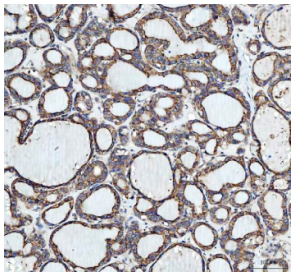
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P30519
Gene ID	3163
Localization	Cytoplasm
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml
Limitations	This Heme Oxygenase 2 antibody is available for research use only.



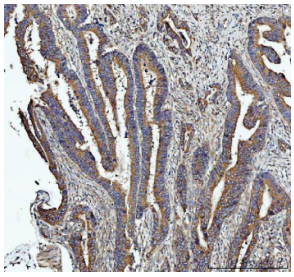
IHC staining of FFPE human ovarian serous adenocarcinoma tissue with Heme Oxygenase 2 antibody. HIER: boil tissue sections in pH8 EDTA buffer for 20 min and allow to cool before testing.



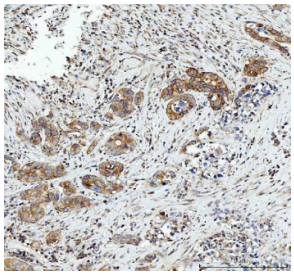
IHC staining of FFPE human lung adenocarcinoma tissue with Heme Oxygenase 2 antibody. HIER: boil tissue sections in pH8 EDTA buffer for 20 min and allow to cool before testing.



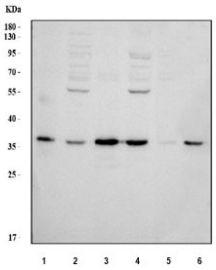
IHC staining of FFPE human thyroid cancer tissue with Heme Oxygenase 2 antibody. HIER: boil tissue sections in pH8 EDTA buffer for 20 min and allow to cool before testing.



IHC staining of FFPE human colorectal adenocarcinoma tissue with Heme Oxygenase 2 antibody. HIER: boil tissue sections in pH8 EDTA buffer for 20 min and allow to cool before testing.



IHC staining of FFPE human appendix mucinous adenocarcinoma tissue with Heme Oxygenase 2 antibody. HIER: boil tissue sections in pH8 EDTA buffer for 20 min and allow to cool before testing.



Western blot testing of 1) human Jurkat, 2) human HeLa, 3) human K562, 4) human PANC-1, 5) rat PC-12 and 6) mouse RAW264.7 cell lysate with Heme Oxygenase 2 antibody. Predicted molecular weight ~36 kDa.

Description

Heme oxygenase 2, also known as HO-2, is an enzyme that in humans is encoded by the HMOX2 gene. It is mapped to 16p13.3. Heme oxygenases cleaves the heme ring at the alpha methene bridge to form biliverdin. Biliverdin is subsequently converted to bilirubin by biliverdin reductase. Under physiological conditions, the activity of heme oxygenase is highest in the spleen, where senescent erythrocytes are sequestrated and destroyed. Heme oxygenase 2 could be implicated in the production of carbon monoxide in brain where it could act as a neurotransmitter.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the Heme Oxygenase 2 antibody may

be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Human partial recombinant protein (AA 2-316) was used as the immunogen for this Heme Oxygenase 2 antibody.

Storage

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