Chorionic Gonadotropin Monoclonal Antibody (FB12), eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	FB12
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_10853505

Applications	Tested Dilution	Publications
Western Blot (WB)	5 µg/mL	-
Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent	-
Immunocytochemistry (ICC/IF)	5 µg/mL	1 Publication
ELISA (ELISA)	Assay-Dependent	-

Product Specific Information

Description: This FB12 monoclonal antibody reacts with human Chorionic Gonadotropin (hCG). This secreted glycoprotein is composed of an alpha subunit, which is common to other peptide hormones such as luteinizing hormone (LH), follicle stimulating hormone (FSH) and thyroid stimulating hormone (TSH), and a beta subunit which determines the specificity of the hormone. FB12 recognizes both the intact hCG (composed of the alpha and beta subunits) as well as the free beta subunit, highly expressed in both choriocarcinoma and the serum of pregnant women. hCG is normally expressed by trophoblastoid cells (syncytiotrophoblasts and extravillous cytotrophoblasts) that are responsible for maintenance of the corpus luteum during early gestation. hCG plays an important role in the regulation of angiogenesis through activation of the PI3K/mTOR pathway, resulting in upregulation of vascular endothelial growth factor (VEGF). Ectoptic expression of hCG has also been reported in multiple types of cancer (bladder, lung, breast, pancreas, renal).

Applications Reported: This FB12 antibody has been reported for use in western blotting, immunohistochemical staining of frozen tissue sections (IHC-F), ELISA, and immunocytochemistry (ICC).

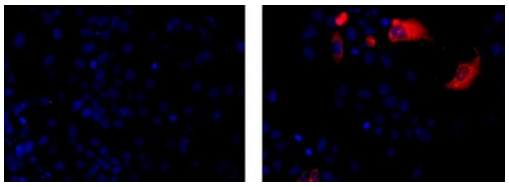
Applications Tested: This FB12 antibody has been tested by western blot and immunocytochemistry on BeWo cells. This can be used at less than or equal to 5 µg/mL. it is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For Chorionic Gonadotropin Monoclonal Antibody (FB12), eBioscience™



Chorionic Gonadotropin Antibody (14-6508-82) in ICC/IF
Immunocytochemistry on fixed BeWo cells using 5 µg/mL Mouse IgG1 K Isotype Control (left) or 5 µg/mL Anti-Human Chorionic Gonadotropin Purified (right) followed by Anti-Mouse TRITC.Nuclei are counterstained with DAPI.

1 Reference

Immunocytochemistry (1)

Scientific reports

Mechanobiological regulation of placental trophoblast fusion and function through extracellular matrix rigidity.

"Published figure using Chorionic Gonadotropin monoclonal antibody (Product # 14-6508-82) in Immunocytochemistry"

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Year
2020

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