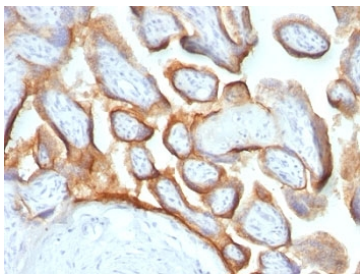
HCG-beta Antibody Cocktail [clone HCGb/54 + HCGb/459] (V3154)

Catalog No.	Formulation	Size
V3154-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3154-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3154SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3154IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	HCGb/54 + HCGb/459
Purity	Protein G affinity chromatography
UniProt	P01233
Localization	Cytoplasmic, Secreted
Applications	Immunohistochemistry (FFPE) : 0.5-1ug/ml for 30 min at RT
Limitations	This HCG-beta antibody cocktail is available for research use only.



IHC: Formalin-fixed, paraffin-embedded human placenta stained with hCG beta antibody (HCGb/54 + HCGb/459).

Description

This mAb reacts with a protein of 22kDa, identified as the beta sub-unit of HCG. It does not cross react with the alpha sub-unit. HCG is a glycoprotein, which is secreted in large quantities by normal trophoblasts. It is present only in trace amounts in non-pregnant urine and sera but rises sharply during pregnancy. HCG is composed of two non-identical, non-covalently linked polypeptide chains designated as the alpha and beta subunits. The alpha subunit is identical to that of thyroid stimulating hormone (TSH), follicle stimulating hormone (FSH), and luteinizing hormone (LH). hCG mAb detects cells and tumors of trophoblastic origin such as choriocarcinoma. Large cell carcinoma and adenocarcinoma of the lung demonstrate anti-hCG positivity in 90% and 60% of cases respectively. 20% of lung squamous cell carcinomas are positive. hCG expression by non-trophoblastic tumors may indicate aggressive behavior.

Application Notes

The optimal dilution of the HCG-beta antibody for each application should be determined by the researcher.

1. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes.
2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

Recombinant hCG beta protein was used as the immunogens for this hCG beta antibody cocktail.

Storage

Store the HCG-beta antibody cocktail at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).