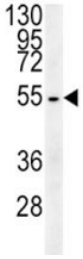
Beta III Tubulin Antibody / TUBB3 (F49314)

Catalog No.	Formulation	Size
F49314-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F49314-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

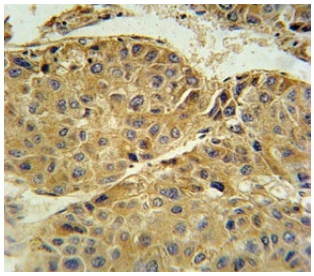
Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse
Predicted Reactivity	Bovine, Chicken, Primate, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	Q13509
Applications	Western Blot : 1:1000 IHC (Paraffin) : 1:10-1:50 Flow Cytometry : 1:10-1:50
Limitations	This beta III Tubulin antibody is available for research use only.

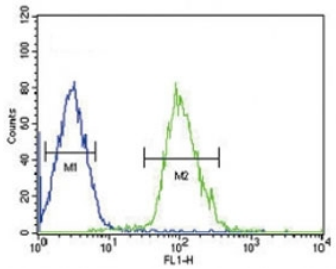


Beta III Tubulin antibody western blot analysis in HepG2 lysate

Beta III Tubulin antibody western blot analysis in mouse brain tissue lysate.



Beta III Tubulin antibody immunohistochemistry analysis in formalin fixed and paraffin embedded human hepatocarcinoma.



Beta III Tubulin antibody flow cytometric analysis of HepG2 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary Ab was used for the analysis.

Description

Beta III tubulin is abundant in the central and peripheral nervous systems (CNS and PNS) where it is prominently expressed during fetal and postnatal development. As exemplified in cerebellar and sympathoadrenal neurogenesis, the distribution of beta III is neuron-associated, exhibiting distinct temporospatial gradients according to the regional neuroepithelia of origin. However, transient expression of this protein is also present in the subventricular zones of the CNS comprising putative neuronal- and/or glial precursor cells, as well as in Kulchitsky neuroendocrine cells of the fetal respiratory epithelium. This temporally restricted, potentially non-neuronal expression may have implications in the identification of presumptive neurons derived from embryonic stem cells.

Application Notes

Titration of the beta III Tubulin antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 36-63 from the human protein was used as the immunogen for this beta III Tubulin antibody.

Storage

Aliquot the beta III Tubulin antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.