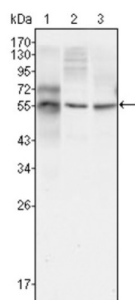
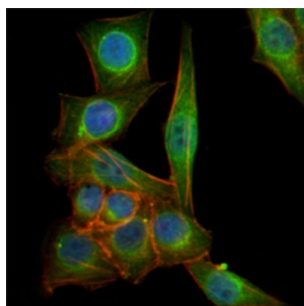


Tubulin Beta 3 (TUBB3) Antibody

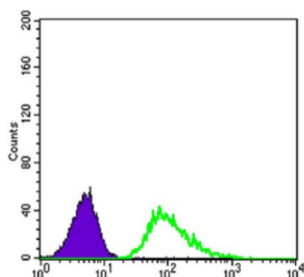
Catalogue No.: abx012294



Western blot analysis using TUBB3 antibody against HepG2 (1), A549 (2) and Hela (3) cell lysate.



Immunofluorescence analysis of PANC-1 cells using TUBB3 antibody (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with AF555 phalloidin.



Flow cytometric analysis of A549 cells using TUBB3 antibody (green) and negative control (purple).

Tubulin, beta 3, also known as TUBB3. Tubulin is the major constituent of microtubules. It binds two moles of GTP, one at an exchangeable site on the beta chain and one at a non exchangeable site on the alpha chain. Tubulin is a highly conserved protein with a molecular weight of ~50 kD. Microtubules play key roles in chromosome segregation in mitosis, intracellular transport, ciliary and flagellar bending, and structural support of the cytoskeleton. The two main tubulin isoforms, alpha and beta tubulin, are usually products of separate genes. The beta tubulin family includes six expressed genes that produce the polypeptide isoforms known as Classes I through VI, each of which have a distinct pattern of expression. Class III beta tubulin is found in neurons and mammalian testis cells and is widely used as a neuronal marker in developmental neurobiology, neoplasia, and stem cell research. Class III beta tubulin expression in neuronal and neuroblastic tumors is differentiation dependent, and its expression in certain non-neuronal neoplasms has been associated with poor prognosis and/or resistance to chemotherapy.

Target: Tubulin Beta 3 (TUBB3)

Clonality: Monoclonal

Reactivity: Human

Datasheet

Version: 3.0.0
Revision date: 01 May 2025



Tested Applications:	ELISA, IF/ICC, FCM
Host:	Mouse
Recommended dilutions:	ELISA: 1/10000, IF/ICC: 1/200 - 1/1000, FCM: 1/200 - 1/400. Optimal dilutions/concentrations should be determined by the end user.
Conjugation:	Unconjugated
Immunogen:	Purified recombinant fragment of human TUBB3 expressed in E. coli.
Isotype:	IgG ₁
Form:	Liquid
Purification:	Unpurified ascites.
Storage:	Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.
UniProt Primary AC:	Q13509 (UniProt , ExPASy)
Gene Symbol:	TUBB3
GeneID:	10381
OMIM:	600638
HGNC:	20772
KEGG:	hsa:10381
Ensembl:	ENSG00000258947
String:	9606.ENSP00000320295
Molecular Weight:	50 kDa
Buffer:	Ascitic fluid containing 0.03% sodium azide.
Concentration:	Not determined.
Note:	THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.