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erbB2 (aa 1240-1260)

clone 19D2

Order No.:		0192-100/erbB2-19D2					+49-7641-455 671	
Size (μg) Lot No.:		0192S			8			
LOUNO.	•	01020			88	8 02/2302	07F	
Isotype	Species Reactivity	Applications	Mol. Weight	Ref.Cell Line	Epitope		Immunogen	
lgG1	human, mouse, dog	y WB	185 kDa	SKOV-3	aa 1240 - 126	80	peptide conjugated to hemocyanin	
Backgrour	d and Specificity:					Related Products		
 ErbB2 is a member of the EGFR/erbB-receptor tyrosine kinase family. Dysregulation of erbB2 and/or activation of downstream signaling pathways has been implicated in many human cancers. ErbB2 is activated upon ligand dependent heterodimerization with EGFR or erbB4. ErbB2 homodimers are not favored due to the lack of an erbB2 specific extracellular ligand. Heterodimerization with EGFR or erbB4 leads to activation of the intrinsic tyrosine kinase activity of EGFR or erbB4 resulting in phosphorylation of multiple tyrosine residues within the erbB2 intracellular domain: Tyr 1023, Tyr 1112, Tyr 1139, Tyr 1196, Tyr 1222, and Tyr 1248. Transphosphorylation via src family kinases leads to phosphorylation of Tyr 877, via PKC of Thr 686, via CamKinase2 of Ser 1113. Phosphorylation of Thr 686 and Ser 1113 interferes with erbB2 endocytosis and degradation. Mab erbB2-19D2 specifically recognizes erbB2 at 185 kDa. 						mab to erbB2 (intracellular domain; aa 860-880) #0222-100/erbB2-24B5 mab to erbB2 (phospho-Ser 1113) #0139-100/erbB2-9E10 mab to erbB2 (phospho-Thr 686) #0182-100/erbB2-9F10 mab to erbB2 (phospho-Thr 686) #0182-100/erbB2-9F8 mab to erbB2 (phospho-Tyr 1112) #0216-100/erbB2-19G5 mab to erbB2 (phospho-Tyr 1248; crossreacts with EGFR) #0221-100/erbB2-6G7 mab to erbB3 (aa1250-1270) #0237-100/erbB3-5A12 mab to erbB3 (aa1230-1250) #0141-100/erbB3-11A4 mab to erbB4 (aa1230-1250) #0228-100/erbB4-6C5		
Purification	supernatant by subsequent ultrafiltration and size exclusion chromatography.					mab to erbB4 (pospho-Tyr 1242) #0229-100/erbB4-4C6 For monoclonal antibodies against EGFR and downstream targets, please refer to our website at www.nanotools.de		
Suc		rose.						
		constitute with 1 ml H_2O (15 min, RT).						
Stability:	Up rec Th	long-term storage, freeze lyophilizate upon arrival (-20°C). on reconstitution, aliquote and freeze in liquid nitrogen; onstituted antibody can be stored frozen at -80°C up to 1 year. w aliquots at 37°C. Thawed aliquots may be stored at 4°C up to onths.						
А		bid repeated freeze / thaw cycles.					23456	
Positive Co	ontrol: #0	991: Cell lysate from	m untreated SK0	OV-3 cells		200 <u> </u>		
Rec bloc		µg/ml for HRPO/ECL detection <u>commended blocking buffer:</u> Casein/Tween 20 based cking and blot incubation buffer, e.g. nanoTools product 31-500/CPPT or #3031-3000/CPPT.			66 — 45 — 31 —			
Immunopre	ecipitation: NI)				Detection of end	ogenous erbB2	
mmunocy	ochemistry: ND					Whole cell extracts of serum starved tumor cells (20.000		
ELISA:	NE)				a PVDF membrar	re applied to SDS-PAGE and transferre e. The immunoblot was probed with m ug/ ml) for 1h at RT and developed by).	
	All products	are supplied for r	ocoarch and in	voctigational		Inne 1. MDA MD	24. Jana 2. MDA MD 400. Jana 2. MO	

All products are supplied for research and investigational use only. Not for use in humans or laboratory animals.

lane 1: MDA-MB 231; lane 2: MDA-MB 468; lane 3: MCF-7; lane 4: T47D; lane 5: SW480; lane 6: SW620