12048 Store at -200

## EREG (D4O5I) Rabbit mAb



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Applications: WB, IP	Reactivity: H	Sensitivity: Endogenous	<b>MW (kDa):</b> 17,19, 30	Source/Isotype: Rabbit IgG	UniProt ID: #O14944	Entrez-Gene lo 2069	
Product Usage Information	Арр	olication		Dilution			
		stern Blotting			1:1000		
	Imm	nunoprecipitation			1:100		
Storage			**	7.5), 150 mM NaCl, 100 $\mu g/ml$ BSA, 50% glycerol and less than not aliquot the antibody.			
Specificity / Sensitivity		EREG (D4O5I) Rabbit mAb recognizes endogenous levels of proepiregulin and the C-terminal propeptide of the EREG protein. It does not recognize the mature form of EREG.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu155 of human EREG protein.					
Background	rece  conta and   and   in nu aggr	Epiregulin (EREG) belongs to the epidermal growth factor (EGF) family and is a ligand for the EGF receptor (EGFR) and ErbB4 (1-3). The binding of EREG to homodimers, as well as heterodimers containing EGFR or ErbB4, leads to receptor activation and downstream signaling to promote cell growth and proliferation (4-6). In normal human tissue, moderate levels of EREG are expressed in the placenta and peripheral blood macrophages. Research studies have shown that EREG is expressed at high levels in numerous cancer cell lines, and EREG expression is correlated with primary cancer aggresiveness/metastases (7-11). In addition to its involvement in tumorigenesis, a variant of EREG has also been shown to be associated with tuberculosis susceptibility (12). EREG is synthesized as a ~30 kDa glycosylated membrane bound proepiregulin form (19 kDa when not glycosylated) and through subsequen proteolytic cleavage is processed to a 17 kDa C-terminal propeptide, and the 6kDa mature form of epiregulin (13).					
	glyco prote	osylated membrane olytic cleavage is p	associated with to bound proepired	dition to its involvement uberculosis susceptibilit gulin form (19 kDa wher	y (12). EREG is syntho not glycosylated) and	riant of EREG has esized as a ~30 kDa I through subsequent	

**Species Reactivity** 

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer** 

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key** 

WB: Western Blotting IP: Immunoprecipitation

**Cross-Reactivity Key** 

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

1/1/24, 2:00 PM

Trademarks and Patents

**Limited Uses** 

EREG (D4O5I) Rabbit mAb (#12048) Datasheet Without Images Cell Signaling Technology

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