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<b>Catalog Number:</b>	MO20012	<b>Host:</b>	Mouse
<b>Ig Class:</b>	IgM,kappa clone: 8A11	<b>Species Reactivity:</b>	Human
<b>Immunogen Sequence:</b>	Prokaryotic recombinant protein corresponding to the external domain of the human transforming growth factor beta receptor type 1 molecule.	<b>Format:</b>	Liquid- tissue culture supernatant containing 15mM sodium azide.
<b>Applications:</b>	Immunohistochemistry-1:25-1:50 (Paraffin-embedded and frozen tissue) Trypsin digestion of paraffin sections may enhance staining in some cases. 60 minutes primary antibody incubation at 25° C Standard ABC technique.		
<b>Storage:</b>	Dilutions listed as a recommendation. Optimal dilution should be determined by investigator. Antibody can be aliquotted and stored frozen at -20° C to -70° C in a manual defrost freezer for six months without detectable loss of activity. The antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. <i>Avoid repeated freeze-thaw cycles.</i>		

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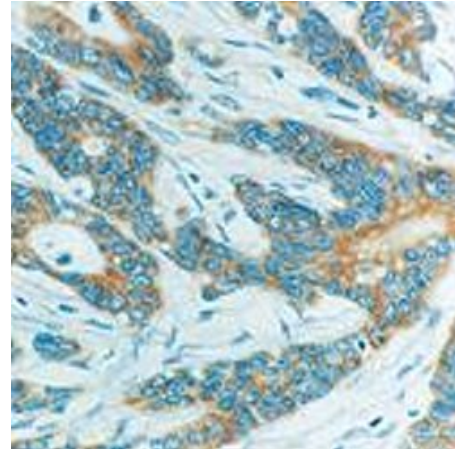
### Application Notes

Staining Pattern: Membrane (some cytoplasmic staining may be observed in certain cell types eg: lymphoid cells).

#### Description/Data:

Transforming growth factor beta (TGFB) inhibits cell proliferation and stimulates cell differentiation. This is achieved through a receptor complex of types I and II TGFB receptors. The type II receptor is a transmembrane serine/threonine kinase which is able to bind TGFB and transactivate the type I receptor. TGFB receptors are found in all myometrial tissues and, in the kidney, they are found exclusively in renal tubular cells. In normal gastric mucosa, type I and II receptors are demonstrated in fundic glands, but not on surface mucous cells and in normal small bowel and colon, TGFB receptors are expressed in the epithelial cells of the upper crypts.

*Image: TGF Beta R (Type1) staining of paraffin embedded Human breast carcinoma. Note cytoplasmic staining of tumor cells.*



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