

## Datasheet

### Anti-Inhibin $\alpha$ Clone PO12/8

Product Name	Anti Human Inhibin $\alpha$ PO12/8
Catalogue Number	PO12/8
Clone, Isotype	PO 12/8, IgG2a
Format	IgG
Tested Applications	ELISA, IHC

#### **Description:**

Higher levels of inhibin  $\alpha$  have been associated with a higher risk of cancer progression and recurrence. Clone PO 12/8 is useful in detecting inhibin  $\alpha$  levels, especially in prostate cancer cells.

#### **Product Details:**

**Form in stock:** IgG, purified – 1.0 mg/mL. Also available as unpurified supernatant.

**Host:** Mouse

**Specificity:** Synthetic peptide corresponding to epitope region aa73-96 of the  $\alpha$ C region of  $\alpha$  subunit of inhibin A (Robertson D.M. et al.).

**Fusion partner:** Spleen cells from immunised Balb/c mice were fused with cells of the mouse SP2/0 myeloma cell line.

**Human Histology positive control:** Prostate tissue

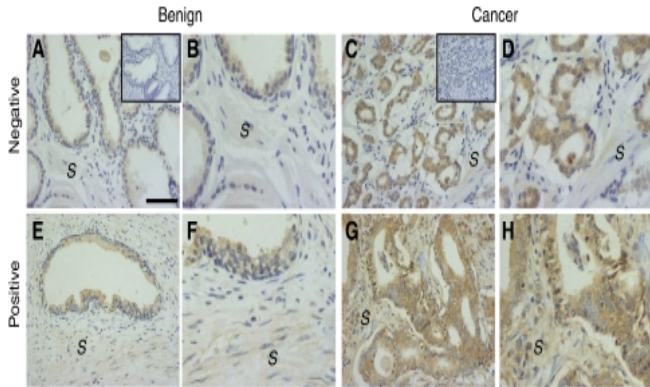
**Storage:** Store at +4°C or -20°C. Avoid repeated freezing and thawing.

**Shelf life:** 18 months from date of dispatch.

**Regulatory/ Restrictions:** For research and commercial purposes.

Applications	Suggested Dilution
ELISA	Assay dependent
Immunohistochemistry	90 $\mu$ g/ml <sup>3</sup>

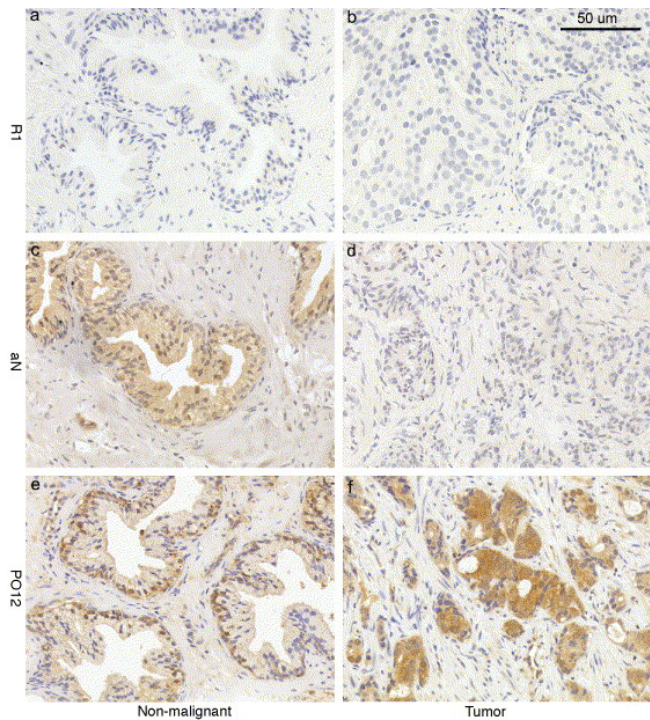
## Applications:



Clone PO 12/8 used to stain prostate cancer cells and detect levels of inhibin a by IHC-P

**Image caption:** INH $\alpha$  expression in clinical specimens and its association to prostate disease.

Immunohistochemical staining of INH $\alpha$  in primary prostate tumours from PCa patients with (A–D) organ-confined (negative) and (E–H) metastatic disease (positive). (Balanathan, P et al.)



Clone PO 12/8 used to stain prostate cancer cells and detect levels of inhibin a by IHC-P

**Image caption:** Immunostaining in biopsy specimens from men with prostate cancer in regions of non-malignant (a, c, e) or malignant (b, d, f) tissue... Panels e and f show the up-regulation of inhibin  $\alpha$  subunit immunoreactivity in malignant compared to non-malignant regions of tissue using the monoclonal antibody, PO#12. (Risbridger G.P et al.)

**Dilution used:** 90  $\mu$ g/ml

## References:

1. Balanathan, P., Williams, E.D., Wang, H., Pedersen, J.S., Horvath, L.G., Achen, M.G., Risbridger, G.P. (2009) Elevated level of inhibin- $\alpha$  subunit is pro-tumourigenic and pro-metastatic and associated with extracapsular spread in advanced prostate cancer. *British Journal of Cancer*, 100(11), 1784–1793.
2. Robertson, D.M., Stephenson, T., Cahir, N., Tsigos, A., Pruyers, E., Stanton, P.G., Groome, N.P., Thirunavukarasu, P. (2001) Development of an inhibin  $\alpha$  subunit ELISA with broad specificity. *Molecular and Cellular Endocrinology*, Volume 180, Issues 1–2, Pages 79-86, ISSN 0303-7207.
3. Risbridger, G.P., Ball, E.M.A., Wang, E.M.A., Mellor, S.L., Peehl, D.M. (2004) Re-evaluation of inhibin  $\alpha$  subunit as a tumour suppressor in prostate cancer. *Molecular and Cellular Endocrinology*, Volume 225, Issues 1–2, Pages 73-76, ISSN 0303-7207.