

XpressWay™ and XpressArray™

Combine the power of human gene and protein expression data

Asterand offers a unique capability based on the combined analysis of quantitative gene expression and protein expression. XpressArray™ is our platform for immunohistochemistry that utilizes a series of human tissue microarrays constructed in-house, the content of which match the human tissues in our XpressWay™ Profiles. 72 different human tissues, each from 3 non-diseased donors, are represented in our XpressArray™ platform. These arrays can be examined immunohistochemically to determine the precise location of the proteins of interest based on the quantitative gene expression data from an XpressWay™ Profile for your target.

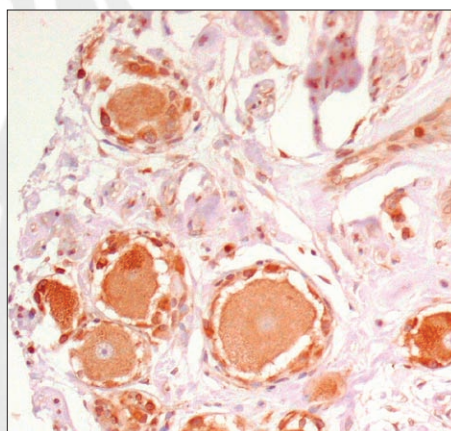
EXPERTS IN HUMAN
TISSUE RESEARCH

EXTENSIVE HUMAN
TISSUE NETWORK

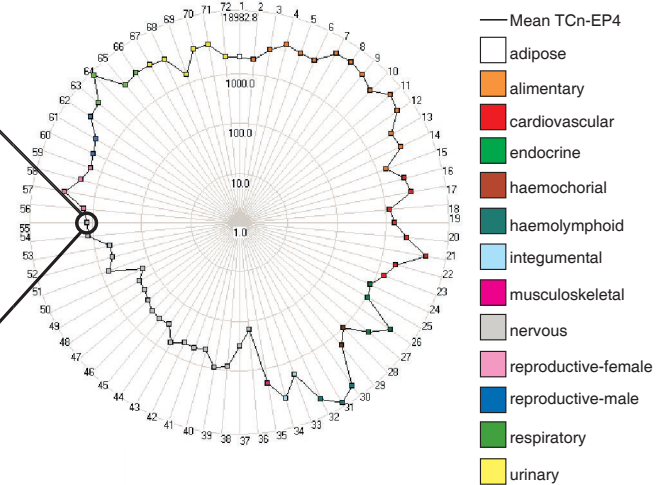
ADVANCE PROMISING
COMPOUNDS FASTER

INFORMED
DECISION MAKING

CONFIDENCE FOR
CLINICAL SUCCESS



EP₄ receptor immunoreactivity in ganglion cells in human DRG



XpressWay™-generated stellar plot of EP₄ receptor expression across 72 human tissue types (mRNA copies per 100ng of total RNA)

The data shown illustrate the value of a combined qRT-PCR and immunohistochemical approach. Where target copy numbers are low, protein expression might be predicted to be equally low. But in DRG, prostanoid EP₄-receptor immunoreactivity was found to be located specifically within the ganglion cells, suggesting a role for EP₄-receptors in the modulation of sensory information, including pain. These observations, derived from the use of XpressArray™, add significantly to the value of the data generated within XpressWay™ Profiles.