Catalogue number: OTMO-0023

O-STANDARDS™ for p53 protein overexpression Assay by immunoperoxidase staining

LOT numbers: 201-p53

What is supplied:
One paraffin block containing two core: one cell line with mutant p53 and p53 protein overexpression (positive control) and tonsil tissue or a cell line with wild type p53 (negative control) both have been fixed in 10% buffered formalin overnight at room temperature, then processed on a regular histology processor cycle (no microwaving) and embedded in paraffin. When immunostained with antibodies to p53 (tested with antibodies DO-7 and BP53-12-1), one of the cores will be positive (cell line) and the other (tonsil or cell line) will be negative for p53. See image in the *O*-STANDARDS™ Image Gallery on our website.

Use:

Use as a reference standard when determining the presence and extent of p53 protein overexpression in sections of formalin-fixed and paraffin-embedded cell lines or tissues. Samples must be fixed and processed similar to this *O*-STANDARDS™ block. For optimal results, sections of *O*-STANDARDS™ and the sample to be analyzed should be cut at the same thickness at the same time on charged glass slides, and heated in oven to melt paraffin. Always write the lot number corresponding to the marker to be analyzed on the slides exactly as written in the corresponding product data sheet; you will need to enter the appropriate lot number corresponding to the biomarker being assayed in OTMIAS® when prompted at the time of the analysis. Immunohisctochemical staining (IHC) should be performed on sections of the *O*-STANDARDS™ block and the test samples in one staining batch using the same reagents and staining procedure and on the same instrument. Do not overstain your sections. Titrate your antibody first on sections of the *O*-STANDARDS™ and select the lowest antibody concentration that produces strong staining intensity in the positive cells while showing completely negative staining in negative cells, then use this antibody dilution in the IHC staining for the quantitative analysis. Use hematoxylin counterstain that stains nuclei light blue, but not too weak (control negative nuclei should have enough blue stain to stand out clearly from the background). When capturing TIFF images of the *O*-STANDARDS™ slides, capture an image of an area with the highest percentage of positive cells using a Plan Apo or similar quality 20 X microscope objective and label the image with the lot number followed by “A” (for example, 201-p53 A for the cells in the *O*-STANDARDS™ section that stained positive for p53), then similarly take an image of the negative cells in the *O*-STANDARDS™ section and label it with the lot number followed by “B”. Please read the OTMIAS® user manual before doing IHC staining of *O*-STANDARDS™. Watch the demo videos if available.

Please refer to terms of sale on our website www.otmedia.com. To contact us, please use the online ContactUs form.