**Uniprot ID:** P62258  
**Protein name:** 1433E_HUMAN  
**Full name:** 14-3-3 protein epsilon  
**Protein existence:** evidence at protein level  
**Function:** Adapter protein implicated in the regulation of a large spectrum of both general and specialized signaling pathways. Binds to a large number of partners, usually by recognition of a phosphoserine or phosphothreonine motif. Binding generally results in the modulation of the activity of the binding partner.  
**Subcellular location:** Cytoplasm (by similarity). Melanosome. *NOTE:* Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

Three antibodies: YWHAE-1, YWHAE-2 and YWHAE-3 were tested. All three antibodies were approved for IHC. YWHAE-1 was selected for full protein profiling.

### YWHAE-1 (CAB047350)

#### Immunohistochemistry

**IHC protocol:** HIER pH 6, Dilution 1:60000  
**IHC test staining:** Cytoplasm and nuclei staining in most tissues.

**IHC Annotators comments**  
Most normal tissues showed weak to moderate cytoplasmic staining with additional nuclear positivity in several cases. Hepatocytes, cells of CNS, myocytes, glomeruli of kidney and adipocytes were in general negative.

#### Immunofluorescence

**IF Overlay:** antibody (green), anti-tubuline (red) and DAPI (blue)  
**IF Localisation:** No staining was observed in any of the three cell lines.

#### Western blot

**WB Size markers (kDa):** 250, 130, 95, 72, 55, 36, 28, 17, 11  
**WB Lanes:** Marker(1), RT-4(2), U251 MG(3), Plasma(4), Liver(5), Tonsil(6)  
**WB Target weight (kDa):** 29, 27  
**WB Validation:** Supportive (Single band corresponding to the predicted size in kDa (+/-20%))