Anti-Phosphotyrosine [PY20] Bulk Size Ab00294-1.4-BT

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This is a chimeric antibody created for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Mouse IgG1, Fc Silent™, Kappa
Clone Number: PY20
Alternative Name(s) of Target: p-Tyr; Phospho-tyrosine; p-Y
UniProt Accession Number of Target Protein:
Published Application(s): IHC-FoFr, IHC-P, IP, WB, IF
Published Species Reactivity: Species independent
Immunogen: Phosphotyrosine conjugated to Keyhole limpet hemocyanin (KLH).
Specificity: PY20 recognizes phospho-tyrosine and phosphotyrosine containing proteins with a reported Kd of 500 nM for the original clone.Whilst phospho-Phenylalanine (Kd = 4 uM M), phospho-Serine (>100 mM) & phospho-Threonine (100 mM) are also detected, the differences in affinity make this antibody primarily phospho-tyrosine specific.
Application Notes: Protein phosphorylation is a key mechanism of signal transduction in Eukaryotes and Prokaryotes. PY20 has been a crucial antibody in the investigation of these processes. An excellent comparison of anti-phosphotyrosine antibodies can be found here .
Antibody First Published in: Glenney et al. Monoclonal antibodies to phosphotyrosine. J Immunol Methods. PMID:2452204
Note on publication: Describes generation of anti-phosphotyrosine antibodies, including PY20

Product Form

Size: 1 mg Purified antibody in bulk size.
Purification: Protein A affinity purified
Supplied In: PBS only.
Storage Recommendation: Store at 4ºC for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommed this antibody be handled under sterile conditions. For longer

storage, aliquot and store at -20ºC.
Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.