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# Data Sheet

## *CD45, His-tag*

Human, Recombinant, N-terminal His-tag
**Catalog #:** 30044
**Lot #:** 150220-D **Conc.:** 2.4 mg/ml

**Formulated in:** 40 mM Tris pH 8.0, 110 mM NaCl, 2.2 mM KCl, 0.04% Tween-20, 20% glycerol and 3 mM DTT.

**Endotoxin Level:** <1 EU/ µg

**Stability:** At least 6 months at –80°C. *Avoid freeze/thaw cycles. Storing diluted enzyme is not recommended, if necessary, use carrier protein (BSA 0.1 – 0.5%).*

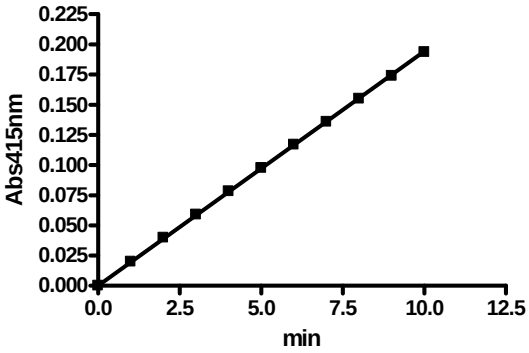
**Reference(s):**

1. Im M. *et al., Korean J Lab Med.*: **31(13),** 148-153 (2011).

**Description:** Protein tyrosine phosphatase CD45, also known as PTPRC (GenBank accession No. NM_080922), catalytic domain, a.a. 632-1304 (end) with N-terminal His-tag, MW=82 kDa, expressed in a Baculovirus Sf9 expression system.
**Specific Activity:** ≥341 pmole/min/µg
Assay conditions: 20 mM HEPES, pH 7.2, 100 mM NaCl, 2 mM EDTA, 1 mM DTT, 1 mM PNPP, 20 min at room temperature. Absorbance was measured at 405 nm. Specific activity was calculated based on $\varepsilon_{pnp}$=18,000$M^{-1}cm^{-1}$.
**Application:** Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

## *Quality Assurance*

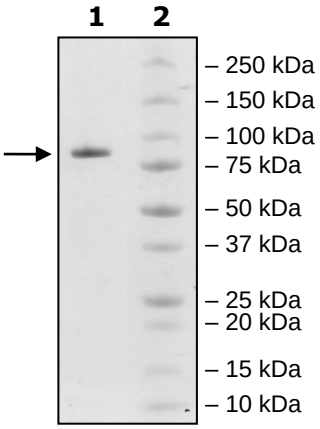
**Specific Activity**




**4-20% SDS-PAGE**
**Coomassie staining**

**Lane 1**:
2 µg CD45
**Lane 2**:
Protein Marker

**MW**: 82 kDa
**Purity**: ≥90%

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