

Human B7-H6/NCR3LG1 DTSet ELISA Instructions

Cat: DSEH0116

Content

	CAT	Volume
① CA(capture antibody 100X)	DSEH011605/15CA	1 vial
② S(Standard)	DSEH0116S	1 vial
③ DA(Detect Antibody 100X)	DSEH011605/15DA	1 vial
④ SH(Streptavidin-HRP 100X)	DSSH0105/15	1 vial

INTENDED USE

For the development of sandwich ELISAs to measure natural and recombinant Human B7-H6. The Reagent Diluent recommended may be suitable for most cell culture supernate, serum, and plasma samples. The Reagent Diluent selected for use can alter the performance of an immunoassay. Reagent Diluent optimization for samples with complex matrices such as serum and plasma, may improve their performance in this assay.

- The reagents are prepared as described in this package insert.
- The recommended microplates, buffers, diluents, substrates, and solutions are used.

REAGENT PREPARATION

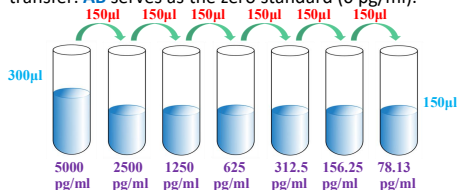
1X CA Preparation: Make a 1:100 dilution of the concentrated capture Antibody solution with carrier protein-free PBS, mix well and prepare for use.

1X DA Preparation: Make a 1:100 dilution of the concentrated Detect Antibody solution with AB, mix well and prepare for use.

1X SH Preparation: Make a 1:100 dilution of the concentrated Streptavidin-HRP solution with AB, mix well and prepare for use.

Standard Curve Preparation: Reconstitution volume is stated on the label of the standard vial. Swirl or mix gently to insure complete and homogeneous solubilization (concentration of reconstituted standard = 50000 pg/ml). Allow the standard to reconstitute for at least 15 minutes. Mix well prior to making dilutions.

The Human B7-H6 Standard DSEH0116S 50000 pg/ml 30 µl + 270 µl AB serves as the high standard (5000 pg/ml). Pipette 150 µl of AB into each tube. Use the high standard to produce a 1:1 dilution series. Mix each tube thoroughly before the next transfer. AB serves as the zero standard (0 pg/ml).



ASSAY PROCEDURE

Plate Preparation

- ① Dilute the **Capture Antibody** to the working concentration in PBS without carrier protein. Immediately coat a 96-well microplate with 100 µl per well of the diluted Capture Antibody(**1X CA**). Seal the plate and incubate overnight at 4°C.
- ② Discard the liquid in the well, inverting the plate and blotting it against clean paper towels.
- ③ Block plates by adding 250 µl of **Blocking Buffer** to each well. Incubate at room temperature for a minimum of 2 hours.
- ④ Repeat the aspiration/ **wash** as in step 2.

Assay Procedure

Bring all reagents to room temperature before use. Allow to stand for at least 15 minutes after the standard proteins have been dissolved. Other working solutions should be used as they are prepared.

- ① Prepare all reagents and working standards as directed in the previous sections.
- ② Remove excess **CP** (Coated Plate) strips from the plate frame, return them to the foil pouch and reseal.
- ③ Add 50 µl of **AB** (Assay Buffer) to each well.
- ④ Add 50 µl of **Standard or sample** per well. Ensure reagent addition is uninterrupted and completed within 15 minutes.
- ⑤ Add 50 µl of **DA 1X** (Detect Antibody) to each well.
- ⑥ Cover with an **SF** (Sealer Film). Incubate at room temperature (18 to 25°C) for 1 hour on a microplate **shaker** set at 500 rpm.
- ⑦ Aspirate each well and **wash**, repeating the process four times. Wash by filling each well with WB (Washing Buffer 300 µl). Complete removal of liquid at each step is essential to good performance. After the last wash, remove any remaining WB (Washing Buffer) by aspirating or decanting. Invert the plate and **blot** it against clean paper towels.
- ⑧ Add 100 µl of **SH 1X** (Streptavidin-HRP) to each well.
- ⑨ Cover with a new **SF** (Sealer Film). Incubate at room temperature (18 to 25°C) for 30 min on a microplate **shaker** set at 500 rpm.
- ⑩ Repeat aspiration/**wash** as in step 7.
- ⑪ Add 100 µl of **TS** (TMB Substrate) to each well. Incubate for 5-30 minutes at room temperature.
- ⑫ Add 100 µl of **SS** (Stop Solution) to each well.
- ⑬ Determine the optical density within 30 minutes, using microplate **reader** set to 450 nm corrected with 570 nm or 630 nm.

OTHER MATERIALS & SOLUTIONS REQUIRED

DuoSet Ancillary Reagent Kit (5 plates): containing 96 well microplates, plate sealers, substrate solution, stop solution, plate coating buffer (PBS), wash buffer, and assay buffer.

The components listed above may be purchased separately:

96 well microplates: YOUKE Life, Catalog # DSEP01.

Plate Sealers: YOUKE Life, Catalog # DSSF01.

Coating Buffer: 137 mM NaCl, 2.7 mM KCl, 8.1 mM Na_2HPO_4 , 1.5 mM KH_2PO_4 , pH 7.2-7.4, 0.2 μm filter. YOUKE Life, Catalog # DSCB01.

Blocking Buffer: YOUKE Life, Catalog # DSB01.

Wash Buffer: 0.05% Tween 20 in PBS, pH 7.2-7.4. YOUKE Life, Catalog # DSWB01.

Assay Buffer: 0.5% BSA, 0.05% Tween 20, PBS Solution. YOUKE Life, Catalog # DSAB01

Substrate Solution: Tetramethylbenzidine. YOUKE Life, Catalog # DSTS01.

Stop Solution: 0.5mol/ml H_2SO_4 . YOUKE Life, Catalog # DSSS01.

PRECAUTIONS

The Stop Solution suggested for use with this kit is an acid solution.

Wear protective gloves, clothing, eye, and face protection. Wash hands thoroughly after handling.

CALCULATION OF RESULTS

Average the duplicate readings for each standard, control, and sample and subtract the average zero standard optical density (O.D.).

Create a standard curve by reducing the data using computer software. As an alternative, construct a standard curve by plotting the mean absorbance for each standard on the y-axis against the concentration on the x-axis and draw a best fit curve through the points on the graph. The data may be linearized by plotting the log of the Human B7-H6 concentrations versus the log of the O.D. and the best fit line can be determined by regression analysis. This procedure will produce an adequate but less precise fit of the data.

If samples have been diluted, the concentration read from the standard curve must be multiplied by the dilution factor.

TYPICAL DATA

This standard curve is only for demonstration purposes. A standard curve should be generated for each set of samples assayed.

